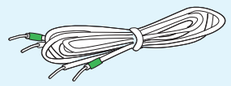
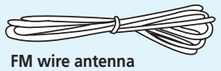
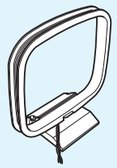
HTP-2750DV Quick Start Guide

1 Check that you have all the accessories.

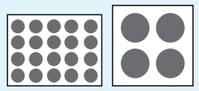

Speaker cord x1


FM wire antenna


AM loop antenna

Brackets x4

Batteries x4 (to confirm system operation)


Non-skid pads (1x20, 1x4)

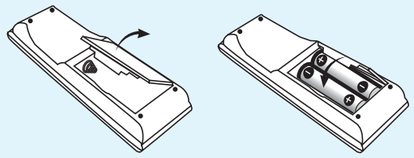
Screws x4

Remote control

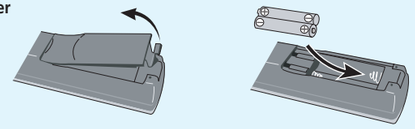
You should also have:
- Speakers x5
- Subwoofer
- Mini plug audio cable
- Audio/video cable
- Coaxial digital cable
- Operating instructions
- Warranty card

2 Put the batteries in the remote control and stick the non-skid pads to the base of the speakers.

For Receiver

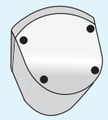


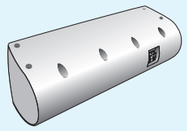
For DVD Player

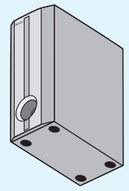


Note
- When disposing of used batteries, please comply with governmental regulations and/or environmental regulations that apply in your country or area.
- Do not use or store batteries in direct sunlight or other excessively hot places, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

Stick the self-adhesive non-skid pads to the underside of each speaker, and to the underside of the subwoofer. Use four pads per speaker (see below).


Front and surround speakers


Center speaker

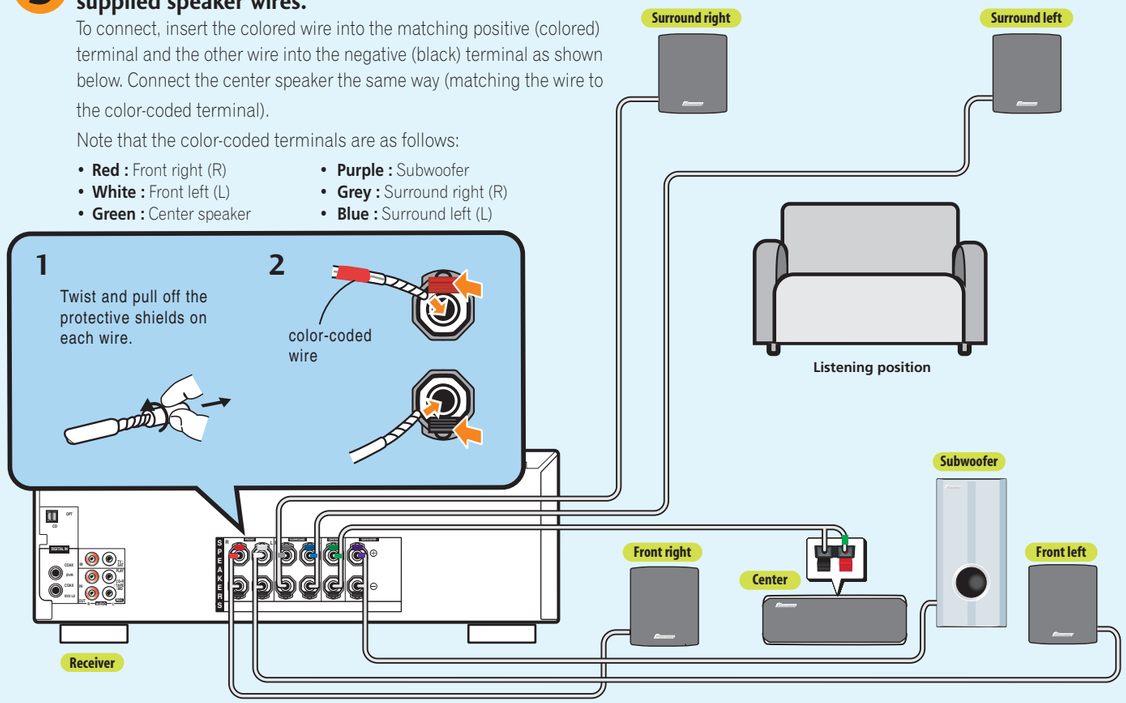

Subwoofer

3 Connect each speaker to the receiver using the supplied speaker wires.

To connect, insert the colored wire into the matching positive (colored) terminal and the other wire into the negative (black) terminal as shown below. Connect the center speaker the same way (matching the wire to the color-coded terminal).

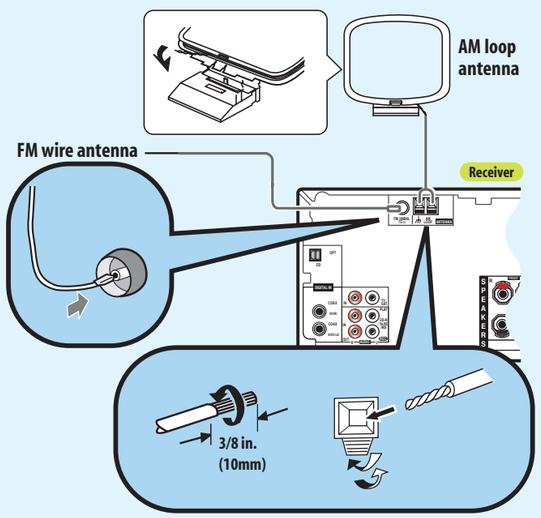
Note that the color-coded terminals are as follows:

- **Red :** Front right (R)
- **White :** Front left (L)
- **Green :** Center speaker
- **Purple :** Subwoofer
- **Grey :** Surround right (R)
- **Blue :** Surround left (L)



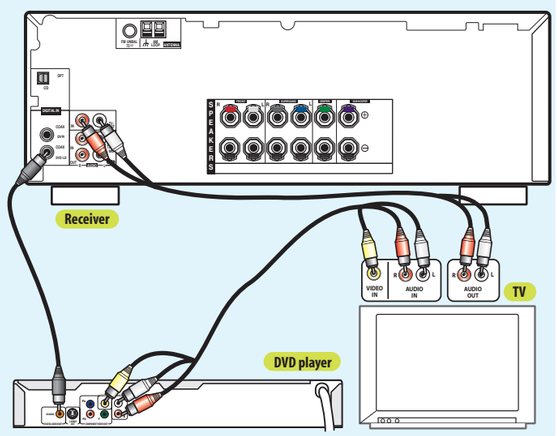
4 Connect the antennas.

1. Connect the FM wire antenna and fully extend along a window frame or another suitable place that gives good reception.
2. To connect the AM loop antenna, twist the exposed wire strands together and insert into the terminal, then snap the connector shut as shown below.



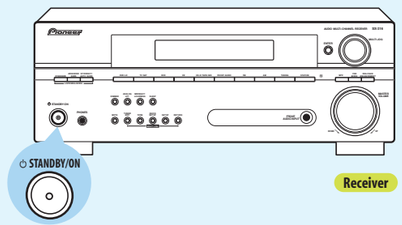
5 Connect the receiver to the DVD player.

1. Use the coaxial digital cable to connect the digital output jack on the DVD player to the **DIGITAL INPUT (COAXIAL) DVD** jack on the receiver.
2. Use the red/white stereo audio cable (not supplied) to connect the **AUDIO TV IN** jack on the receiver to the audio output on your TV. This will allow you to listen to your TV through this speaker system.
3. Use the audio/video cable to connect the **AUDIO/VIDEO OUT** jack on the DVD player to your TV's audio/video input.

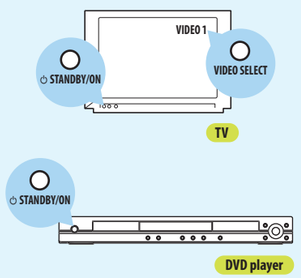


6 Plug the receiver, DVD player and TV into a convenient AC outlet.

1. Press ⏻ **STANDBY/ON** to switch on the receiver.

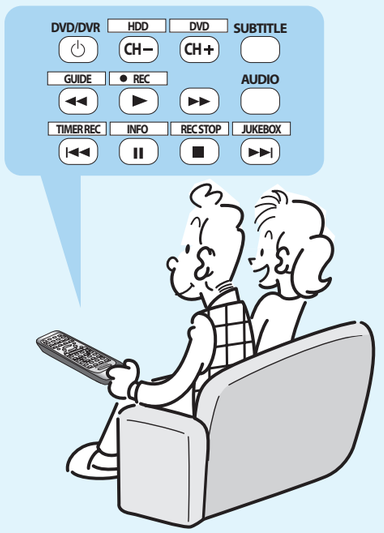


2. Switch on your DVD player and TV, and set the TV to the correct video input.



7 After switching on, make any necessary settings required by the DVD player, then you're ready to start enjoying your home theater system.

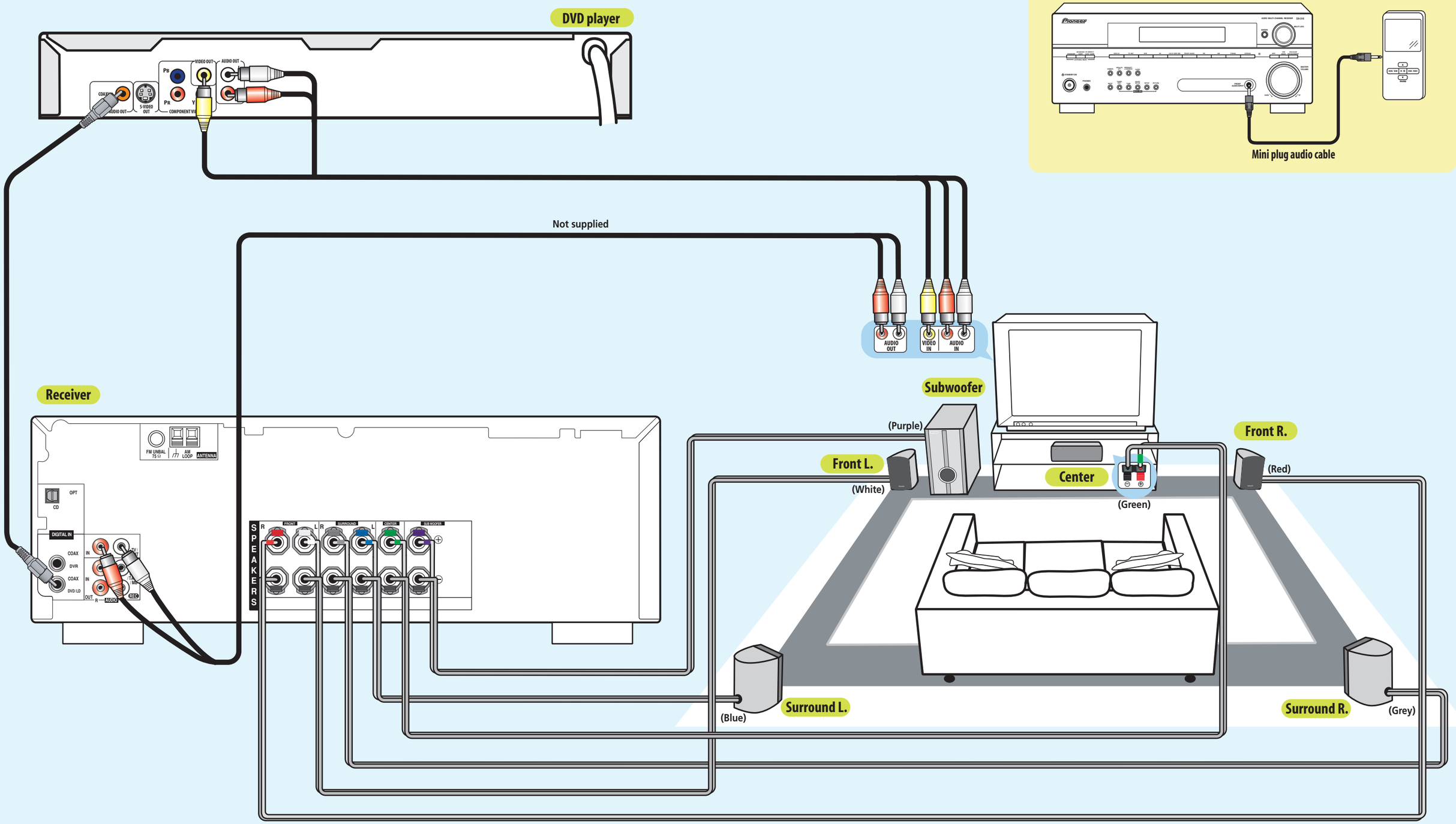
Refer to both the receiver's and DVD player's operating instructions for a detailed explanation of this system's surround sound and DVD features.



For detailed instructions, see the Operating Instructions supplied and/or contact one of our knowledgeable Pioneer Customer Service Representatives at 1-800-421-1404.

Setting Up Your HTP-2750DV Home Theater System At-a-Glance

Refer to the following diagram when making system connections for a full surround sound setup. Note that the TV and some accessories are not included. Refer to the reverse side of this sheet to check what's supplied with the HTP-2750DV.



Using the front panel audio input

Use the supplied mini-plug cable to connect an audio device (portable audio player, etc.) to the front panel audio input for playback through this system.

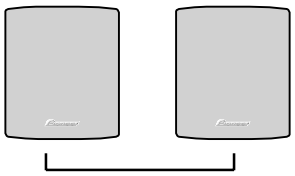
For detailed instructions, see the Operating Instructions supplied and/or contact one of our knowledgeable Pioneer Customer Service Representatives at 1-800-421-1404.

OPERATING GUIDE

S-FCRW2700

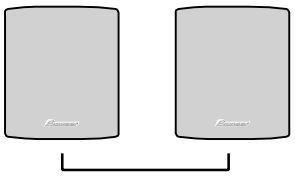
SPEAKER SYSTEM

WHAT'S IN THE BOX

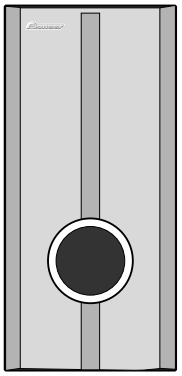


• Front speakers x 2

• Center speaker x 1

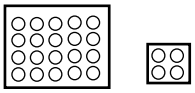


• Surround speakers x 2

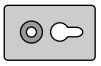


SUBWOOFER

• Speaker cord

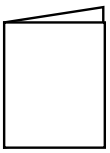


• Non-skid pads



• Brackets x 4

• Screws x 4



• Operating guide

IMPORTANT:

- The serial number for this equipment is located on the side of the packing case. Please write this serial number on the warranty page and keep it in a secure area for future reference.

BEFORE USE

- Thank you for buying this Pioneer product.
- Please read through this operating guide before using your speaker system to optimize performance.

FRONT / CENTER / SURROUND SPEAKERS

In order to prevent damage to the speaker system resulting from input overload, please observe the following precautions:

- When connecting or disconnecting cables, be sure amplifier power is OFF.
- Do not use excessive amplifier volume if using a tone control to emphasize high or low frequencies.

INSTALLATION PRECAUTIONS

FRONT / CENTER / SURROUND SPEAKERS

- Do not install these units near a stove or other heating appliance, or put them in a place exposed to the sun. Such locations may cause the cabinet to change color and the speaker system to break down.
- The front, center and surround speakers supplied with this system are magnetically shielded. However, placing them extremely close to a television may result in color distortion on the screen. If this happens, move the speakers a little further away and switch off the television for 15-30 minutes.

SUBWOOFER

- Do not place anything on top of the cabinet.
- Do not spill liquid on the cabinet.
- Place the subwoofer at least 8 inches from any wall or curtain in order to avoid heat build-up.
- The subwoofer is not magnetically shielded and so should not be placed near a TV or monitor. Magnetic storage media (such as floppy discs and tape or video cassettes) should also not be kept close to the subwoofer.

CAUTION:

- Do not connect this speaker to any amplifier other than the one supplied with this system. Connection to any other amplifier may result in a malfunction or a fire.
- Do not attach the subwoofer and center speaker to the wall or ceiling. They may fall off and cause injury.

WARNING:

Handling the cord on this product or cords associated with accessories sold with the product will expose you to chemicals listed on proposition 65 known to the State of California and other governmental entities to cause cancer and birth defect or other reproductive harm.
Wash hands after handling

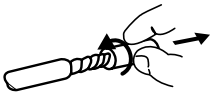
CONNECTING YOUR SYSTEM

IMPORTANT:
Make sure all equipment is turned off before making any connections.

FRONT / CENTER / SURROUND / SUBWOOFER SPEAKERS

Correct wiring of your loudspeakers is essential for achieving the best sound quality. Be careful to ensure proper polarity of connection.

Twist and pull off the protective shields on each wire.

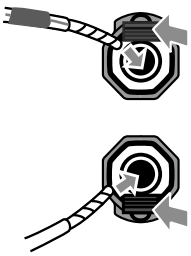


Connect to the speaker terminals on the rear of the receiver.

To connect, insert the colored wire into the matching positive (colored) terminal and the other wire into the negative (black) terminal as shown below.

Note that the color-coded tabs are as follows:

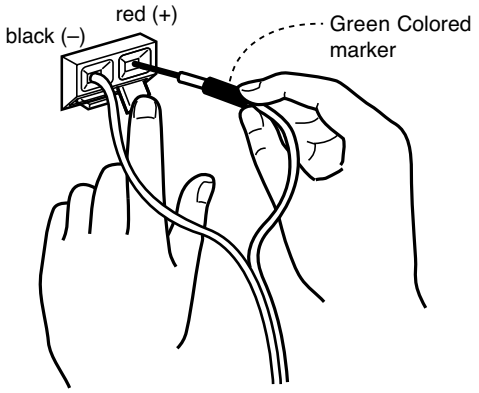
- **Red :** Front right (R)
- **White :** Front left (L)
- **Green :** Center speaker
- **Purple :** Subwoofer
- **Grey :** Surround right (R)
- **Blue :** Surround left (L)



CENTER SPEAKER ONLY

Connect the speaker cords to the input terminals at the rear of center speaker.

Match the colored wire with the color-coded label (above the tabs), then insert the colored wire into the red (+) tab and the other wire with the black (–) tab.



PLACEMENT AND FINE TUNING

SUBWOOFER

Sound spreads in all directions in the very low frequency range. Human hearing cannot easily detect the source of very low frequencies. Be sure to provide a space of at least 8 inches (20cm) between the rear of the subwoofer and the nearest wall.

FRONT SPEAKERS

For best results the loudspeaker should be positioned near ear level and the loudspeakers separated a distance approximately equal to the listening distance. Angling the loudspeakers inward towards the listener will improve the image stability for non-central listeners. Close proximity to a side or rear wall will enhance the midbass performance, although too close (particularly a corner location) and the bass may be unnaturally high and image performance may be degraded.

CENTER SPEAKER

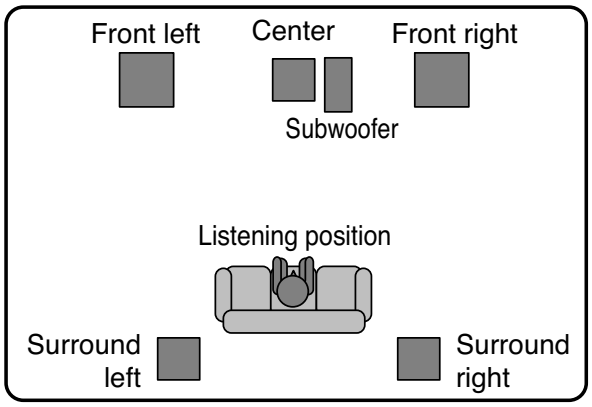
The loudspeaker should be positioned below the TV. For best results align the front of the loudspeaker with the front of the TV. If the loudspeaker is placed under the TV and very close to the floor, then tilting upwards may be beneficial.

SURROUND SPEAKERS

For best results the loudspeakers should be positioned at or above ear level. Depending upon your room layout and preferences, the left and right rear speakers should be positioned on the side walls just the rear of the listening position, or on the walls.

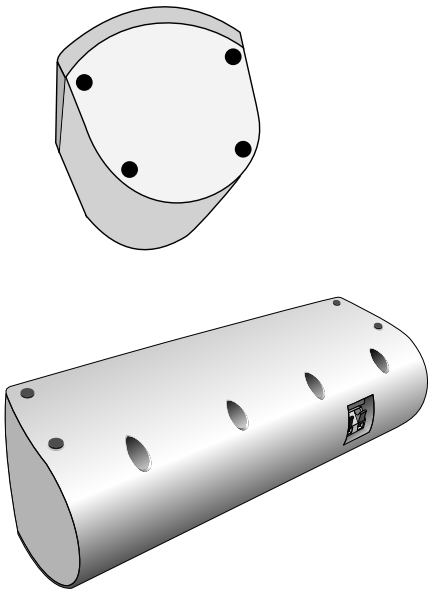
Standard surround setup

This is a standard multichannel surround soundspeaker setup for optimal 5.1 channel home theater sound.

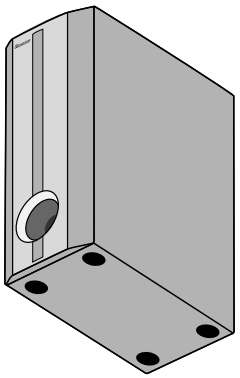


NON-SKID PADS

If the front, center and surround speakers are placed on a hard surface, such as wood or tile place four non-skid pads (small) on the bottom flat surface of the speakers.



If the subwoofer is placed on a hard floor, such as wood or tile, place four non-skid pads (large) on the bottom surface of the subwoofer.



CABINET MAINTENANCE

Use a polishing cloth or dry cloth to wipe off dust and dirt.

When the cabinet is very dirty, clean with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.

Never use thinners, benzine, insecticide sprays and other chemicals on or near the cabinets, since these will corrode the surfaces.

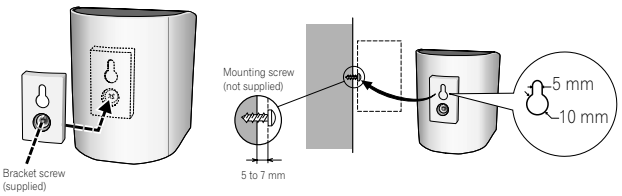
Wall-mounting the front and surround speaker system

Attaching the brackets

- Make sure to tighten the supplied screw as securely as possible when attaching the bracket to the back of the speaker.
- Please do not attach the brackets to the center speaker.

Before mounting

- Remember that the speaker system is heavy and that its weight could cause the wood screws to work loose, or the wall material to fail to support it, resulting in the speaker falling. Make sure that the wall on which you intend to mount the speakers is strong enough to support them. Do not mount on plywood or soft surface walls.
- Mounting screws are not supplied. Use screws that are suitable for the wall material and that will support the weight of the speaker.



Note

- If you are unsure of the quality and strength of the walls, consult a professional for advice.
- Pioneer is not responsible for any accidents or damage that result from improper installation.

TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	REMEDY
1. No sound	• Bad speaker wire or connection • Receiver is off • Volume control is at zero	• Connect correctly or replace wire • Turn on receiver • Slowly turn up volume
2. Sound is distorted	• Extreme signal condition	• Turn down the amplifier's output level (volume, bass control, bass boost) to lower the level.

SPECIFICATIONS

FRONT / SURROUND SPEAKERS

Enclosure ..... Closed-box bookshelf type (magnetically shielded)
System ..... 7.7 cm 1-way system
Speakers ..... 7.7 cm cone type
Nominal impedance ..... 8 Ω
Frequency range ..... 85 Hz to 20 kHz
Dimensions ..... 105 mm (W) x 115 mm (H) x 114 mm (D)
4 1/8 in. (W) x 4 1/2 in. (H) x 4 1/2 in. (D)
Weight
FRONT SPEAKER ..... 0.6 kg/ 1 lb. 5 oz
SURROUND SPEAKER ..... 0.66 kg/ 1 lb. 7 oz

CENTER SPEAKER

Enclosure ..... Closed-box bookshelf type (magnetically shielded)
System ..... 7.7 cm 1-way system
Speakers ..... 7.7 cm cone type
Nominal impedance ..... 8 Ω
Frequency range ..... 75 Hz to 20 kHz
Dimensions ..... 270 mm (W) x 90 mm (H) x 100 mm (D)
10 5/8 in. (W) x 3 9/16 in. (H) x 3 15/16 in. (D)
Weight ..... 0.8 kg/ 1 lb. 12 oz

SUBWOOFER

Enclosure ..... Bass-reflex floor type
System ..... 16 cm 1-way system
Speaker ..... 16 cm cone type
Nominal impedance ..... 8 Ω
Frequency range ..... 30 Hz to 2 kHz
Dimensions ..... 190 mm (W) x 360 mm (H) x 317 mm (D)
7 1/2 in. (W) x 14 3/16 in. (H) x 12 1/2 in. (D)
Weight ..... 4.2 kg/ 9 lb. 4 oz

Note: Specifications and design subject to possible modification without notice due to improvements.

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Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably andclearly, and without distortion.

Once you have established a comfortable sound level:
- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.
THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE	
90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

Pioneer *sound.vision.soul*

DVD Player

DV-290-K
DV-393-S
DV-490V-S
DV-490V-K

Register Your Product at
www.pioneerelectronics.com (US)
www.pioneerelectronics.ca (Canada)

Operating Instructions

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D1-4-2-3_En

IMPORTANT NOTICE – THE SERIAL NUMBER FOR THIS EQUIPMENT IS LOCATED IN THE REAR. PLEASE WRITE THIS SERIAL NUMBER ON YOUR ENCLOSED WARRANTY CARD AND KEEP IN A SECURE AREA. THIS IS FOR YOUR SECURITY. D1-4-2-6-1_En

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help. D8-10-1-2_En

CAUTION : USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION : THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD. D6-8-2-1_En

Information to User
Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment. D8-10-2_En

CAUTION – TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD. RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION – POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVVERT. D2-4-4-1_EF

WARNING – TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

D1-4-2-1_En

WARNING: Handling the cord on this product or cords associated with accessories sold with the product will expose you to lead, a chemical known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm.
Wash hands after handling D36-P4_En

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance : www.eiae.org. K057_En

IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNINGS — All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

CLEANING — The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

CART — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

VENTILATION — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION – The appliance should be installed in a stable location.

NONUSE PERIODS – The power cord of the appliance should be unplugged from the outlet when left un-used for a long period of time.

GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

LIGHTNING — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

OVERLOADING — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

SERVICING — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.

REPLACEMENT PARTS — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

SAFETY CHECK — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

WALL OR CEILING MOUNTING — The product should not be mounted to a wall or ceiling.

HEAT — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

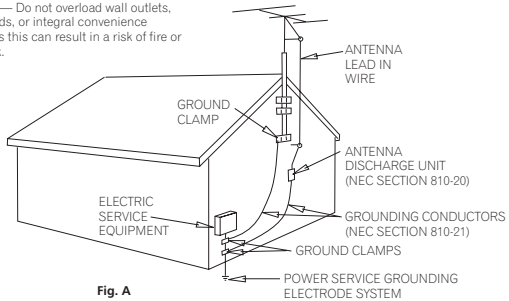
ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC — NATIONAL ELECTRICAL CODE

Fig. A

D1-4-2-2_En

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

D8-10-1-3_EF

CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

D8-10-3a_En

For U.S. and Australia Model

C67-7-3_En

This product includes FontAvenue® fonts licenced by NEC corporation. FontAvenue is a registered trademark of NEC Corporation.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement. S002_En

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period. K041_En

---

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

S001_En

Thank you for buying this Pioneer product.

Please read through these operating instructions so that you will know how to operate your model properly. After you have finished reading the instructions, put them in a safe place for future reference.

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Chapter 1
Before you start

Features

- **24-bit/96 kHz compatible DAC**

The integrated 24-bit/96 kHz DAC means that this player is compatible with high sampling-rate discs, capable of delivering exceptional sound quality in terms of dynamic range, low-level resolution and high-frequency detail.

- **Surround sound entertainment with Dolby Digital[*1] and DTS[*2] software**

Logos:

When connected to a suitable AV amplifier or receiver, this player gives great surround sound with Dolby Digital and DTS discs.

- **PureCinema Progressive Scan video**

When connected to a progressive scan-compatible TV or monitor using the component video outputs, you can enjoy extremely stable, flicker free images, with the same frame refresh rate as the original movie.

- **New Disc Navigator with moving pictures**

The new Disc Navigator enables you play the first few seconds of each title or chapter in a thumbnail image on screen.

HDMI[*3] digital interface (DV-490V only)

The HDMI (High Definition Multimedia Interface) interconnect provides high quality digital audio and video, all from a single user-friendly connector. HDMI is the first consumer electronics interface to support uncompressed standard, enhanced, or high-definition video plus standard to multi-channel surround sound audio[*4], all using one interface. You can easily connect to a HDMI-equipped AV receiver or audiovisual device for high quality audio and video, and communication between the video source and (DTV) players, set-top boxes, and other audiovisual devices is also supported.

- **DSP effects for enhanced playback**

See *Audio Settings and Video Adjust menus* on page 32.

- **Picture zoom**

See *Zooming the screen* on page 31.

- **MP3 and WMA compatibility**

See *Compressed audio compatibility* on page 9.

- **JPEG compatibility**

See *JPEG file compatibility* on page 10.

- **DivX®[*5] video compatibility**

See *DivX video compatibility* on page 10.

Logos:

- **Energy saving design**

An auto power-off function switches the player into standby if not used for about 30 minutes.

*[*1] Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.*

*[*2] "DTS" and "DTS Digital Out" are registered trademarks of Digital Theater Systems, Inc.*

*[*3] HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.*

4 It is not possible to output SACD or DVD-Audio sources from the HDMI connection of this player.

5 DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

What's in the box

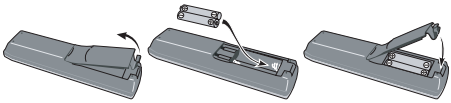
Please confirm that the following accessories are in the box when you open it.

- Remote control
- AA/R6P dry cell batteries x 2
- Audio/video cable (red/white/yellow plugs)
- Operating instructions
- Warranty card

Putting the batteries in the remote

- **Open the battery compartment cover and insert the batteries as shown.**

Use two AA/R6P batteries and follow the indications (⊕, ⊖) inside the compartment. Close the cover when you're finished.



Important

Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Don't mix new and old batteries together.
- Don't use different kinds of battery together—although they may look similar, different batteries may have different voltages.
- Make sure that the plus and minus ends of each battery match the indications in the battery compartment.
- Remove batteries from equipment that isn't going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

Hints on installation

We want you to enjoy using this product for years to come, so please use the following guidelines when choosing a suitable location:

Do...

- Use in a well-ventilated room.
- Place on a solid, flat, level surface, such as a table, shelf or stereo rack.

Don't...

- Use in a place exposed to high temperatures or humidity, including near radiators and other heat-generating appliances.
- Place on a window sill or a place where the player will be exposed to direct sunlight.
- Use in an excessively dusty or damp environment.
- Place directly on top of an amplifier, or other component in your stereo system that becomes hot in use.
- Use near a television or monitor as you may experience interference—especially if the television uses an indoor antenna.
- Use in a kitchen or other room where the player may be exposed to smoke or steam.

- Use on a thick rug or carpet, or cover with cloth—this may prevent proper cooling of the unit.
- Place on an unstable surface, or one that is not large enough to support all four of the unit's feet.
- Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

Disc / content format playback compatibility

This player is compatible with a wide range of disc types (media) and formats. Playable discs will generally feature one of the following logos on the disc and/or disc packaging. Note however that some disc types, such as recordable CD and DVD, may be in an unplayable format—see below for further compatibility information.

Please also note that recordable discs cannot be recorded using this player.

DVD-Video DVD-R DVD-RW

Audio CD Video CD CD-R CD-RW

Fujicolor CD

- This unit will play DVD+R/+RW discs.
- *DVD is a trademark of DVD Format/Logo Licensing Corporation.*
- *is a trademark of Fuji Photo Film Co. Ltd.*
- Also compatible with KODAK Picture CD

This player supports the IEC's Super VCD standard. Compared to the Video CD standard, Super VCD offers superior picture quality, and allows two stereo soundtracks to be recorded. Super VCD also supports the widescreen size.

About DualDisc playback

A DualDisc is a new two -sided disc, one side of which contains DVD content video, audio, etc. while the other side contains non-DVD content such as digital audio material.

The non-DVD, audio side of the disc is not compliant with the CD Audio specification and therefore may not play.

The DVD side of a DualDisc plays in this product.

For more detailed information on the DualDisc specification, please refer to the disc manufacturer or disc retailer.

CD-R/RW compatibility

- Compatible formats: CD-Audio, Video CD, ISO 9660 CD-ROM* containing MP3, WMA, JPEG or DivX video files
  ** ISO 9660 Level 1 or 2 compliant. CD physical format: Mode1, Mode2 XA Form1. Romeo and Joliet file systems are both compatible with this player.*
- Multi-session playback: No
- Unfinalized disc playback: No
- File structure (may differ): Up to 299 folders on a disc; up to 648 folders and files (combined) within each folder

DVD+R/DVD+RW compatibility

Only DVD+R/DVD+RW discs recorded in 'Video Mode (DVD Video Mode)' which have been finalized, can be played back. However, some editing made during the recording may not be played back accurately.

DVD-R/RW compatibility

- Compatible formats: DVD-Video, Video Recording (VR)*
  ** Edit points may not play exactly as edited; screen may go momentarily blank at edited points.*
- Unfinalized playback: No
- WMA/MP3/JPEG file playback on DVD-R/RW: No

Compressed audio compatibility

- Compatible formats: MPEG-1 Audio Layer 3 (MP3), Windows Media Audio (WMA)
- Sampling rates: 32 kHz, 44.1 kHz or 48 kHz
- Bit-rates: Any (128 Kbps or higher recommended)
- VBR (variable bit rate) MP3 playback: No
- VBR WMA playback: No
- WMA lossless encoding compatible: No
- DRM (Digital Rights Management) compatible: Yes (DRM-protected audio files will *not* play in this player—see also *DRM* in the *Glossary* on page 44)
- File extensions: .mp3, .wma (these must be used for the player to recognize MP3 and WMA files – do not use for other file types)

About WMA

The Windows Media® logo printed on the box indicates that this player can playback Windows Media Audio content.

WMA is an acronym for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. WMA content can be encoded by using Windows Media® Player version 7, 7.1, Windows Media® Player for Windows® XP, or Windows Media® Player 9 Series.

Microsoft, Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

About DivX

DivX is a media technology created by DivX, Inc. DivX media files contain compressed video. DivX files can also include advanced media features like menus, subtitles, and alternate audiotracks. This player can play DivX video files burned on CD-R/RW/ROM discs. Keeping the same terminology as DVD-Video, individual DivX video files are called "Titles". When naming files/titles on a CD-R/RW disc prior to burning, keep in mind that by default they will be played in alphabetical order.

Displaying DivX subtitle files

The font sets listed below are available for DivX external subtitle files. You can see the proper font set on-screen by setting the **Subtitle Language** (in *Language settings* on page 36) to match the subtitle file.

This player supports the following language groups:

Group 1: Albanian (sq), Basque (eu), Catalan (ca), Danish (da), Dutch (nl), English (en), Faroese (fo), Finnish (fi), French (fr), German (de), Icelandic (is), Irish (ga), Italian (it), Norwegian (no), Portuguese (pt), Rhaeto-Romanic (rm), Scottish (gd), Spanish (es), Swedish (sv)
Group 2: Albanian (sq), Croatian (hr), Czech (cs), Hungarian (hu), Polish (pl), Romanian (ro), Slovak (sk), Slovenian (sl)
Group 3: Bulgarian (bg), Byelorussian (be), Macedonian (mk), Russian (ru), Serbian (sr), Ukrainian (uk)
Group 4: Hebrew (iw), Yiddish (ji)
Group 5: Turkish (tr)

- Some external subtitle files may be displayed incorrectly or not at all.
- For external subtitle files the following subtitle format filename extensions are supported (please note that these files are not shown within the disc navigation menu): .srt, .sub, .ssa, .smi
- The filename of the movie file has to be repeated at the beginning of the filename for the external subtitle file.
- The number of external subtitle files which can be switched for the same movie file is limited to a maximum of 10.

DivX video compatibility

- Official DivX® Certified product.
- Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.
- File extensions: .avi and .divx (these must be used for the player to recognize DivX video files). *Note that all files with the .avi extension are recognized as MPEG4, but not all of these are necessarily DivX video files and therefore may not be playable on this player.*

DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

JPEG file compatibility

- Compatible formats: Baseline JPEG and EXIF 2.2* still image files up to a resolution of 3072 x 2048.
  **File format used by digital still cameras.*
- Progressive JPEG compatible: No
- File extensions: .jpg (must be used for the player to recognize JPEG files – do not use for other file types)

PC-created disc compatibility

Discs recorded using a personal computer may not be playable in this unit due to the setting of the application software used to create the disc. In these particular instances, check with the software publisher for more detailed information.

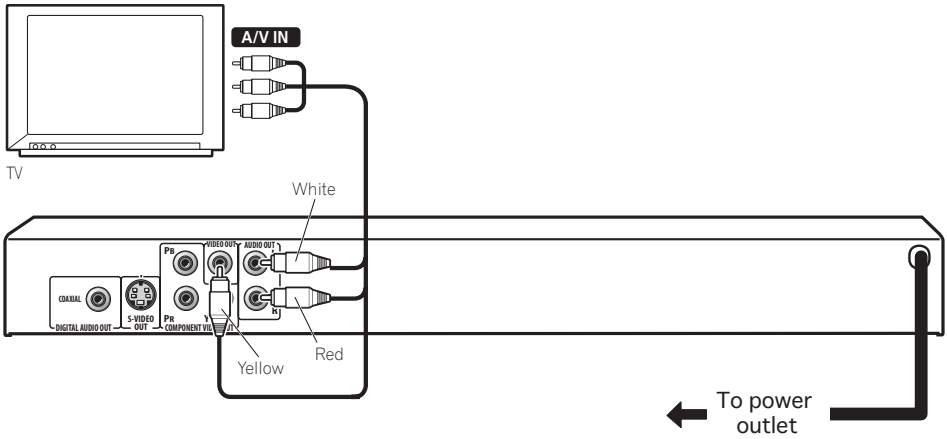
Discs recorded in packet write mode (UDF format) are not compatible with this player.

Check the DVD-R/RW or CD-R/RW software disc boxes for additional compatibility information.

Chapter 2
Connecting up

Easy connections

- Before making or changing any connections, switch off the power and disconnect the power cable from the AC outlet.
- The setup described here is a basic setup that allows you to play discs using just the cables supplied with the player. In this setup, stereo audio is played through the speakers in your TV.
- The following illustrations show the DV-393, but connections for the DV-490V are the same except where indicated.



Important

- This player is equipped with copy protection technology. Do not connect this player to your TV via a VCR using audio/video or S-video cables, as the picture from this player will not appear properly on your TV. (This player may also not be compatible with some combination TV/VCRs for the same reason; refer to the manufacturer for more information.)
- When connecting to your TV as shown above, do not set the **Component Out** setting (See *Video Output settings* on page 35) to **Progressive**.

1 Connect the VIDEO OUT and AUDIO OUT L/R jacks to a set of A/V inputs on your TV.

Use the supplied audio/video cable, connecting the red and white plugs to the audio outputs and the yellow plug to the video output. Make sure you match up the left and right audio outputs with their corresponding inputs for correct stereo sound.

See below if you want to use a component or S-video cable for the video connection.

2 Plug into a power outlet.

Note

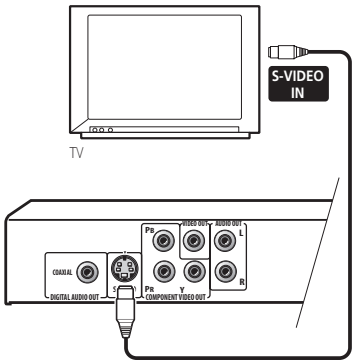
- Before unplugging the player from the power outlet, make sure you first switch it into standby using either the front panel ⏻ **STANDBY/ON** button, or the remote control, and wait of the **-OFF-** message to disappear from the player's display.
- For the above reasons, do not plug this player into a switched power supply found on some amplifiers and AV receivers.

Connecting using the S-video output

If your TV (or other equipment) has an S-video (S1) input, you can use the S-video output on this player instead of the standard (composite) output for a better quality picture.

• Use an S-video cable (not supplied) to connect the S-VIDEO OUT to an S-video input on your TV (or monitor or AV receiver).

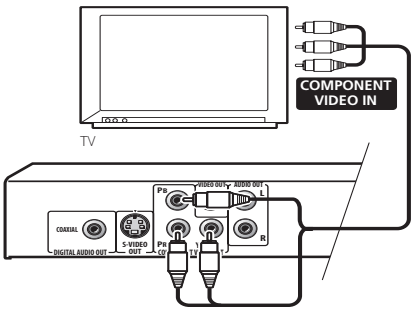
Line up the small triangle above the jack with the same mark on the plug before plugging in.



Connecting using the component video output

You can use the component video output instead of the standard video out jack to connect this player to your TV (or other equipment). This should give you the best quality picture from the three types of video output available.

• Use a component video cable (not supplied) to connect the COMPONENT VIDEO OUT jacks to a component video input on your TV, monitor or AV receiver.



Watching progressive scan video from the component video outputs

This player can output progressive scan video from the component video output. Compared to interlace video, progressive scan video effectively doubles the scanning rate of the picture, resulting in a very stable, flicker-free image.

To set up the player for use with a progressive scan TV, see *Video Output settings* on page 35. When the player is set to output progressive scan video, the **PRGSVE** indicator lights in the front panel display.

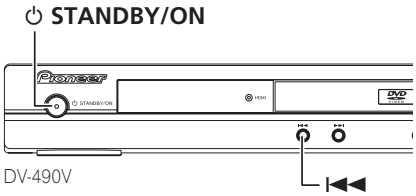
Important

- When **Component Out** (page 35) is set to **Progressive**, there is no video output from the **VIDEO OUT** (composite) and **S** (S-video) jacks.
- If you want to display video on more than one monitor simultaneously, make sure the player is set to **Interlace**.
- If you connect a TV that is not compatible with a progressive scan signal and switch the player to progressive, you will not be able to see any picture at all. In this case, switch everything off and reconnect using the supplied video cable (see *Easy connections* on page 11), then switch back to **Interlace** (see below).

Switching the video output to interlace using the front panel controls

Switch the player to standby then, using the front panel controls, press ⏻ **STANDBY/ON** while pressing ⏮ to switch the player back to **Interlace**.

- *DV-490V only:* If the player is connected using HDMI, disconnect the HDMI cable before resetting the player to interlace output. (If left connected, the HDMI output resolution will be reset to its default—see *Resetting the output resolution to the default setting with HDMI connection* on page 15.)



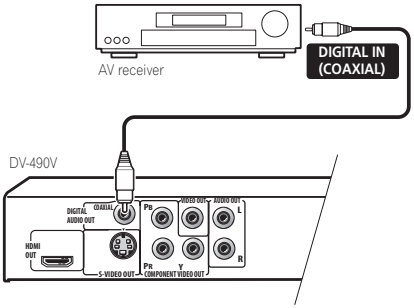
Connecting to an AV receiver

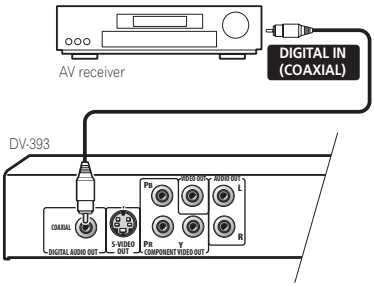
To enjoy multichannel surround sound you need to connect this player to an AV receiver using the digital audio output.

In addition to a digital connection, we recommend also connecting using the stereo analog connection.

You'll probably also want to connect a video output to your AV receiver. You can use any of the video outputs available on this player (the illustration shows a standard (composite) connection).

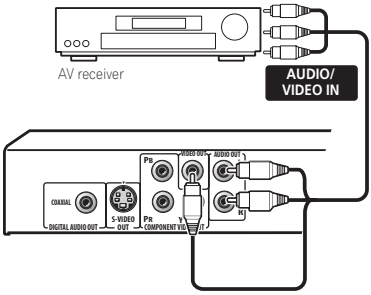
1 Connect the DIGITAL AUDIO OUT COAXIAL jack on this player to a coaxial digital input on your AV receiver.





Use a coaxial cable (similar to the supplied video cable) to connect the **COAXIAL DIGITAL AUDIO OUT** jack to a coaxial input on your AV receiver.

2 Connect the analog AUDIO OUT L/R and VIDEO OUT jacks on this player to a set of analog audio and video inputs on your AV receiver.



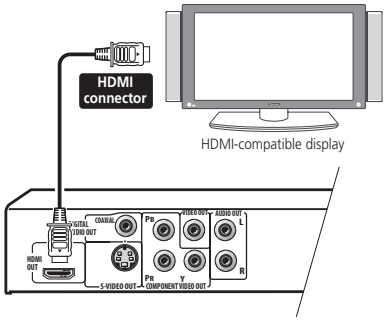
- You can use the S-video or component video jacks to connect to the AV receiver if you prefer.

Connecting using HDMI (DV-490V only)

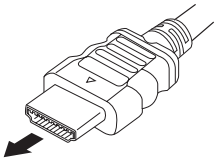
If you have a HDMI equipped monitor or display, you can connect it to this player using a commercially available HDMI cable.

The HDMI connector outputs uncompressed digital video, as well as almost every kind of digital audio that the player is compatible with, including DVD-Video, Video CD/Super VCD, CD and MP3.

1 Use an HDMI cable to connect the HDMI OUT interconnect on this player to an HDMI interconnect on a HDMI-compatible monitor.



- The arrow on the cable connector body should be face up for correct alignment with the connector on the player.



Note

- This unit has been designed to be compliant with HDMI (High Definition Multimedia Interface) . Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers.
- When you change the component connected to the HDMI output, you will also need to change the HDMI settings to match the new component (see *HDMI Out* on page 35, *HDMI Resolution* on page 36 and *HDMI Color* on page 36 to do this). However, the settings for each component are then stored in memory (for up to 2 components).
- The HDMI connection is compatible with 44.1 kHz/48 kHz, 16 bit/20 bit/24 bit 2 channel linear PCM signals, as well as Doldy Digital, DTS and MPEG audio bitstream.

About HDMI

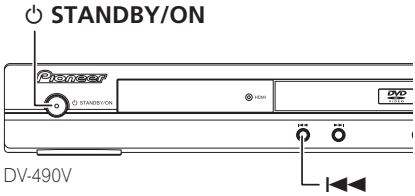
HDMI (High Definition Multimedia Interface) supports both video and audio on a single digital connection for use with DVD players, DTV, set-top boxes, and other AV devices. HDMI was developed to provide the technologies of High Bandwidth Digital Content Protection (HDCP) as well as Digital Visual Interface (DVI) in one specification. HDCP is used to protect digital content transmitted and received by DVI-compliant displays.

HDMI has the capability to support standard, enhanced, or high-definition video plus standard to multi-channel surround-sound audio. HDMI features include uncompressed digital video, a bandwidth of up to 2.2 gigabytes per second (with HDTV signals), one connector (instead of several cables and connectors), and communication between the AV source and AV devices such as DTVs.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.

Resetting the output resolution to the default setting with HDMI connection

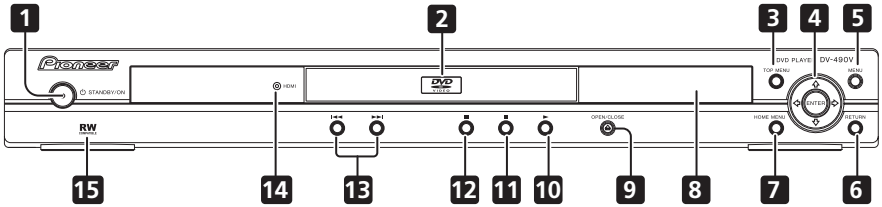
Switch the player to standby then, using the front panel controls, press ⏻ **STANDBY/ON** while pressing ⏮ to switch the player back to **480P**.



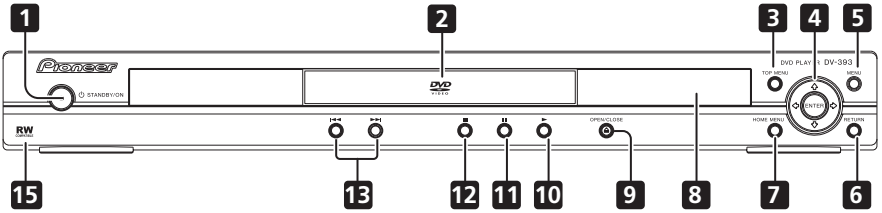
DV-490V

Chapter 3
Controls and displays

Front panel



DV-490V



DV-393/ DV-290

1 ⏻ **STANDBY/ON** (page 18)

2 **Disc tray**

3 **TOP MENU** (page 22)

4 **ENTER & cursor buttons** (page 18)

5 **MENU** (page 22)

6 **RETURN** (page 22)

7 **HOME MENU** (page 18)

8 **Display**

9 ⏏ **OPEN/CLOSE** (page 20)

10 ▶ (page 21)

11 ❚❚ (page 21)

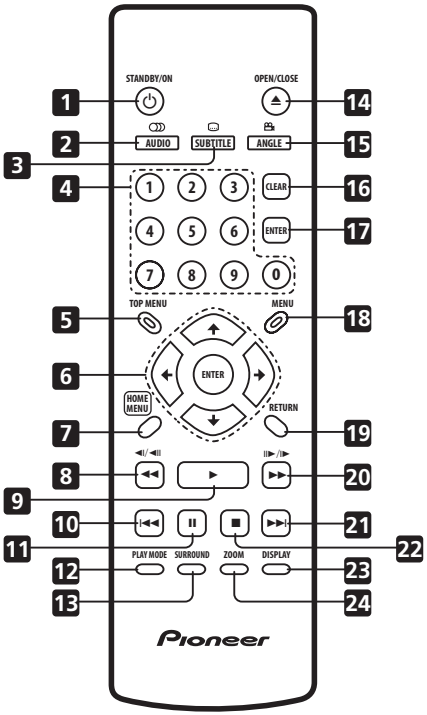
12 ■ (page 21)

13 ⏮ **and** ⏭ (page 21)

14 **HDMI indicator (DV-490V only)**
Lights when this player is recognized by another HDMI or DVI/HDCP compatible component.

15 **RW Compatible** (page 8)

Remote control



1 ⏻ **STANDBY/ON** (page 18)

2 **AUDIO** (page 31)

3 **SUBTITLE** (page 30)

4 **Number buttons** (page 21)

5 **TOP MENU** (page 22)

6 **ENTER & cursor buttons** (page 18)

7 **HOME MENU** (page 18)

8 **◄◄ and ◄I/◄II** (page 21, 24)

9 **►** (page 21)

10 **I◄◄** (page 21)

11 **II** (page 21)

12 **PLAY MODE** (page 27)

13 **SURROUND** (page 32)

14 **▲ OPEN/CLOSE** (page 20)

15 **ANGLE** (page 31)

16 **CLEAR** (page 29)

17 **ENTER** (page 18)

18 **MENU** (page 22)

19 **RETURN** (page 18)

20 **►► and I►/II►** (page 21, 24)

21 **►►I** (page 21)

22 **■** (page 21)

23 **DISPLAY** (page 31)

24 **ZOOM** (page 31)

Using the remote control

Keep in mind the following when using the remote control:

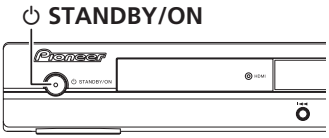
- Make sure that there are no obstacles between the remote and the remote sensor on the unit.
- The remote has a range of about 7 m(23 ft.).
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit's remote sensor.
- Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located close to this unit.
- Replace the batteries when you notice a fall off in the operating range of the remote.

Chapter 4
Getting started

Switching on

After making sure that everything is connected properly and that the player is plugged in, press ⏻ **STANDBY/ON** on the front panel or remote control to switch the player on.

Also, switch on your TV and make sure that it is set to the input you connected the DVD player to.



DV-490V

FAQ

- *My DVD player switches on but there is nothing displayed on my TV.*

  Make sure that the TV is set to the correct video input (not a TV channel). For example, if you connected this player to the **VIDEO 1** inputs on your TV, switch your TV to **VIDEO 1**.

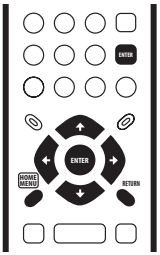
Note

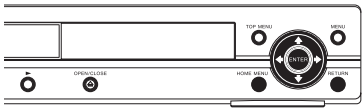
- This player features a screen saver and an auto power off function. If the player is stopped and no button is pressed for around five minutes, the screen saver starts. If the disc tray is closed but no disc is playing and no control is pressed for about 30 minutes, the player automatically goes into standby.

Using the on-screen displays

For ease of use, this player makes extensive use of graphical on-screen displays (OSDs).

All the screens are navigated in basically the same way, using the cursor buttons (⬆/⬇/⬅/➡) to change the highlighted item and pressing **ENTER** to select it.





Button	What it does
HOME MENU	Display/exit the on-screen display.
⬆/⬇/⬅/➡	Changes the highlighted menu item.
ENTER	Selects the highlighted menu item (both **ENTER** buttons on the remote work in exactly the same way).
RETURN	Returns to the main menu without saving changes.

Note

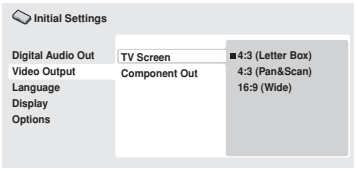
- From here on in this manual, the word 'select' generally means use the cursor buttons to highlight an item on-screen, then press **ENTER**.

Setting up the player for your TV

If you have a widescreen (16:9) TV, you should setup the player so that the picture will be presented correctly. If you have a conventional (4:3) TV, you can leave the player on the default setting and move on to the next section.

1 Press HOME MENU and select 'Initial Settings'.

2 Select 'TV Screen' from the 'Video Output' settings.



3 If you have a widescreen (16:9) TV, select '16:9 (Wide)'.

If you have a conventional (4:3) TV, you can change the setting from **4:3 (Letter Box)** to **4:3 (Pan & Scan)** if you prefer. See *Video Output settings* on page 35 for more details.

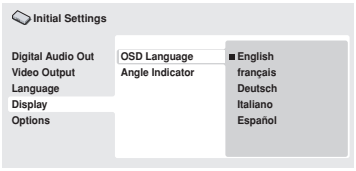
4 Press HOME MENU to exit the menu screen.

Setting the language of this player's on-screen displays

This sets the language of the player's on-screen displays.

1 Press HOME MENU and select 'Initial Settings'.

2 Select 'OSD Language' from the 'Display' settings.



3 Select a language.

The on-screen language will change according to your selection.

4 Press HOME MENU to exit the menu screen.

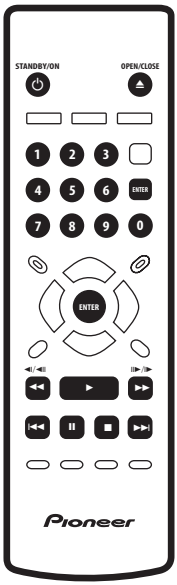
Playing discs

The basic playback controls for playing DVD, CD, Video CD, DivX video and MP3/WMA discs are covered here. Further functions are detailed in the next chapter.

For details on playing JPEG picture discs, see *Viewing a JPEG slideshow* on page 25.

Important

- Throughout this manual, the term 'DVD' means DVD-Video and DVD-R/RW. If a function is specific to a particular kind of DVD disc, it is specified.



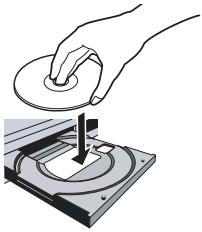
1 If the player isn't already on, press ⏻ STANDBY/ON to switch it on.

If you're playing a DVD, disc containing DivX video files or Video CD, also turn on your TV and make sure that it is set to the correct video input.

2 Press ⏏ OPEN/CLOSE to open the disc tray.

3 Load a disc.

Load a disc with the label side facing up, using the disc tray guide to align the disc (if you're loading a double-sided DVD disc, load it with the side you want to play face down).



4 Press ► (play) to start playback.

If you're playing a DVD or Video CD, an on-screen menu may appear. See *DVD-Video disc menus* on page 22 and *Video CD PBC menus* on page 22 for more on how to navigate these.

- If you're playing a containing DivX video files or MP3/WMA audio files, it may take a few seconds before playback starts, etc. This is normal.
- Please see *Disc / content format playback compatibility* on page 8 if you want to play a Dual Disc (DVD/CD hybrid disc).

Note

- You may find with some DVD discs that some playback controls don't work in certain parts of the disc. This is not a malfunction.
- If a disc contains a mixture of DivX video and other media file types (MP3, for example), first select whether to play the DivX video files (**DivX**)or the other media file types (**MP3 / WMA / JPEG**) from the on-screen display.

Basic playback controls

The table below shows the basic controls on the remote for playing discs. The following chapter covers other playback features in more detail.

Button	What it does
►	Starts playback. If the display shows **RESUME** or **LAST MEM** playback starts from the resume or last memory point (see also *Resume and Last Memory* below.)
II	Pauses a disc that's playing, or restarts a paused disc.
■	Stops playback. See also *Resume and Last Memory* below.
◄◄ (remote only)	Press to start fast reverse scanning. Press ► (play) to resume normal playback.
►► (remote only)	Press to start fast forward scanning. Press ► (play) to resume normal playback.
I◄◄	Skips to the start of the current track, title or chapter, then to previous tracks/titles/chapters.
►►I	Skips to the next track, title or chapter.
Numbers (remote only)	Use to enter a title/chapter/track number. Press **ENTER** to select. • If the disc is stopped, playback starts from the selected title (for DVD) or track (for CD/Video CD). • If the disc is playing, playback jumps to the start of the selected title (VR mode DVD-RW), chapter (DVD-Video) or track (CD/Video CD).

Resume and Last Memory

When you stop playback of a DVD, CD, or Video CD or DivX video discs, **RESUME** is shown in the display indicating that you can resume playback again from that point.

If the disc tray is not opened, the next time you start playback the display shows **RESUME** and playback resumes from the resume point. (If you want to clear the resume point, press ■ (stop) while **RESUME** is displayed.)

With DVDs and Video CDs, if you take the disc out of the player after stopping playback, the last play position is stored in memory. If the next disc you load is the same one, the display shows **LAST MEM** and playback will resume. For DVD-Video discs, the player stores the play position of the last five discs. When one of these discs is next loaded, you can resume playback.

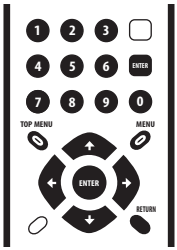
Note

- The Last Memory function doesn't work with VR format DVD-RW discs.
- If you don't need the Last Memory function when you stop a disc, you can press ⏏ **OPEN/CLOSE** to stop playback and open the disc tray.

DVD-Video disc menus

Many DVD-Video discs feature menus from which you can select what you want to watch. They may also give access to additional features, such as subtitle and audio language selection, or special features such as slideshows. See the disc packaging for details.

Sometimes DVD-Video menus are displayed automatically when you start playback; others only appear when you press **MENU** or **TOP MENU**.

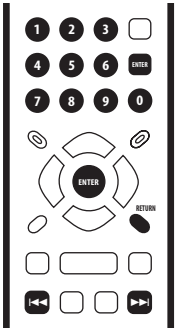


Button	What it does
TOP MENU	Displays the 'top menu' of a DVD disc—this varies with the disc.
MENU	Displays a DVD disc menu—this varies with the disc and may be the same as the 'top menu'.
↑/↓/←/→	Moves the cursor around the screen.
ENTER	Selects the current menu option.
RETURN	Returns to the previously displayed menu screen.
Numbers (remote only)	Highlights a numbered menu option (some discs only). Press **ENTER** to select.

Video CD PBC menus

Some Video CDs have menus from which you can choose what you want to watch. These are called PBC (Playback control) menus.

You can play a PBC Video CD without having to navigate the PBC menu by starting playback using a number button to select a track, rather than the ► (play) button.



Button	What it does
RETURN	Displays the PBC menu.
Numbers (remote only)	Use to enter a numbered menu option. Press **ENTER** to select.
⏮	Displays the previous menu page (if there is one).
⏭	Displays the next menu page (if there is one).

FAQ

- *After I load a DVD disc, it ejects automatically after a few seconds!*

  Most likely, the disc is the wrong region for your player. The region number should be printed on the disc; check it against the region number of the player (which you can find on the rear panel). See also *DVD-Video regions* on page 42.

  If the region number is OK, it may be that the disc is damaged or dirty. Clean the disc and look for signs of damage. See also *Taking care of your player and discs* on page 40.

- *Why won't the disc I loaded play?*

  First check that you loaded the disc the right way up (label side up), and that it's clean and undamaged. See *Taking care of your player and discs* on page 40 for information on cleaning discs.

  If a disc loaded correctly won't play, it's probably an incompatible format or disc type, such as DVD-Audio or DVD-ROM. See *Disc / content format playback compatibility* on page 8 for more on disc compatibility.

- *I have a widescreen TV so why are there black bars at the top and bottom of the screen when I play some discs?*

  Some movie formats are such that even when played on a widescreen TV, black bars are necessary at the top and bottom of the screen. This is not a malfunction.

- *I have a standard (4:3) TV and set the player to show widescreen DVDs in pan & scan format, so why do I still get black bars top and bottom with some discs?*

  Some discs override the display preferences of the player, so even if you have **4:3 (Pan & Scan)** selected, those discs will still be shown in letter box format. This is not a malfunction.

- *I've connected to a HDMI compatible component but I can't get any signal and the front panel HDMI indicator won't light!*

  Make sure that you've selected this player as the HDMI input in the settings for the component you're using. You may need to refer to the instruction manual of the component to do this. See *Connecting using HDMI (DV-490V only)* on page 14 for more on HDMI compatibility.

- *There's no picture from the HDMI output!*

  This player cannot display pictures from DVI compatible sources. See *Connecting using HDMI (DV-490V only)* on page 14 for more on HDMI compatibility.

  Make sure the resolution on this player matches that of the component you have connected using HDMI. See *HDMI Resolution* on page 36 to change the HDMI resolution.

Chapter 5
Playing discs

Note

- Many of the functions covered in this chapter apply to DVD discs, Video CDs, CDs, DivX video and WMA/MP3 JPEG discs, although the exact operation of some varies slightly with the kind of disc loaded.
- Some DVDs restrict the use of some functions (random or repeat, for example) in some or all parts of the disc. This is not a malfunction.
- When playing Video CDs, some of the functions are not available during PBC playback. If you want to use them, start the disc playing using a number button to select a track.

Scanning discs

You can fast-scan discs forward or backward at four different speeds (DivX video only one speed).

1 During playback, press ◄◄ or ►► to start scanning.

- There is no sound while scanning DVDs, DivX video and Video CDs.

2 Press repeatedly to increase the scanning speed.

- The scanning speed is shown on-screen.

3 To resume normal playback, press ► (play).

- When scanning a Video CD playing in PBC mode or a WMA/MP3 track, playback automatically resumes at the end or beginning of the track.
- Depending on the disc, normal playback may automatically resume when a new chapter is reached on a DVD disc.

Playing in slow motion

You can play DVDs at four different slow motion speeds, forwards and backwards. Video CDs and DivX video can be played at four different forward slow motion speeds.

1 During playback, press II (pause).

2 Press and hold ◄I/◄II or II►/I► until slow motion playback starts.

- The slow motion speed is shown on-screen.
- There is no sound during slow motion playback.

3 Press repeatedly to change the slow motion speed.

4 To resume normal playback, press ► (play).

- Depending on the disc, normal playback may automatically resume when a new chapter is reached.

Frame advance/frame reverse

You can advance or back up DVD discs frame-by-frame. With Video CDs and DivX video file you can only use frame advance.

1 During playback, press II (pause).

2 Press ◄I/◄II or II►/I► to reverse or advance a frame at a time.

3 To resume normal playback, press ► (play).

- Depending on the disc, normal playback may automatically resume when a new chapter is reached.

Viewing a JPEG slideshow

After loading a CD/CD-R/RW containing JPEG picture files, press ► (play) to start a slideshow from the first folder/picture on the disc. The player displays the pictures in each folder in alphabetical order.

- If the folder contains WMA/MP3 files, playback of the slideshow and WMA/MP3 files repeats. During the audio playback, you can still use the skip (I◄◄/►►I), scan (◄◄/►►) and pause (II) functions.

Pictures are automatically adjusted so that they fill as much of the screen as possible (if the aspect ratio of the picture is different to your TV screen you may notice black bars at the sides, or at the top and bottom of the screen).

While the slideshow is running:

Button	What it does
II	Pauses the slideshow; press again to restart.
I◄◄	Displays the previous picture.
►►I	Displays the next picture.
⬅/➡	Pauses the slideshow and rotates the displayed picture 90º (counter) clockwise. (Press ► (play) to restart slideshow.)
⬆/⬇	Pauses the slideshow and flips the displayed picture horizontally or vertically. (Press ► (play) to restart slideshow.)
ZOOM	Pauses the slideshow and zooms the picture. Press again to toggle between 1x, 2x and 4x zoom. (Press ► (play) to restart slideshow.)
MENU	Displays the Disc Navigator screen (see below).

Note

- The time it takes for the player to load a file increases with large file sizes.

Browsing DVD or Video CD disc with the Disc Navigator

Use the Disc Navigator to browse through the contents of a DVD or Video CD disc to find the part you want to play.

Important

- You can't use the Disc Navigator with Video CDs in PBC mode.

1 During playback, press HOME MENU and select 'Disc Navigator' from the on-screen menu.

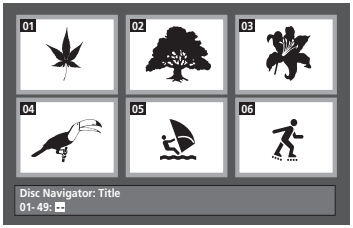
2 Select a view option.

The options available depend on the kind of disc loaded and whether the disc is playing or not, but include:

- **Title** – Titles from a DVD-Video disc.
- **Chapter** – Chapters from the current title of a DVD-Video disc.
- **Track** – Tracks from a Video CD disc.
- **Time** – Thumbnails from a Video CD disc at 10 minute intervals.
- **Original: Title** – Original titles from a VR mode DVD-RW disc.
- **Playlist: Title** – Playlist titles from a VR mode DVD-RW disc.
- **Original: Time** – Thumbnails from the Original content at 10 minute intervals.
- **Playlist: Time** – Thumbnails from the Playlist at 10 minute intervals.

The screen shows up to six moving thumbnail images displayed one after another. To display the previous/next six thumbnails, press ⏮/⏭ (you don't have to wait for all the thumbnails to finish playing to display the previous/next page).

3 Select the thumbnail image for what you want to play.



You can use either the cursor buttons (⬆/⬇/⬅/➡) and **ENTER** to select a thumbnail, or the number buttons.

To select using the number buttons, enter a two-digit number then press **ENTER**.

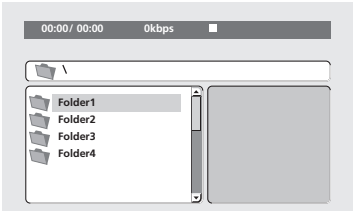
Tip

- Another way to find a particular place on a disc is to use one of the search modes. See *Searching a disc* on page 30.

Browsing WMA, MP3, DivX video and JPEG files with the Disc Navigator

Use the Disc Navigator to find a particular file or folder by filename. Note that if there are other types of files on the same disc, these will not be displayed in the Disc Navigator.

1 Press HOME MENU and select 'Disc Navigator' from the on-screen menu.



2 Use the cursor buttons (⬆/⬇/⬅/➡) and ENTER to navigate.

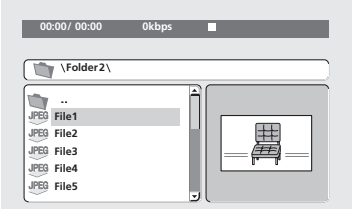
Use the cursor up/down buttons (⬆/⬇) to move up and down the folder/file list.

Use the cursor left button (⬅) to return to the parent folder.

Use **ENTER** or cursor right (➡) to open a highlighted folder.

- You can also return to the parent folder by going to the top of the list to the '**..**' folder, then pressing **ENTER**.

- When a JPEG file is highlighted, a thumbnail image is displayed on the right.



3 To play the highlighted track or DivX video file or display the highlighted JPEG file, press ENTER.

- When a WMA/MP3 or DivX video file is selected, playback begins, starting with the selected file, and continues until the end of the folder.
- When a JPEG file is selected, a slideshow begins, starting with that file, and continues to the end of the folder.

Tip

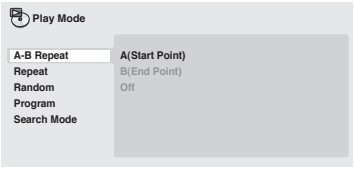
- You can also play a JPEG slideshow while listening to WMA/MP3 playback. Simply select the audio file you want to listen to followed by the JPEG from which you want the slideshow to start. Playback of both the slideshow and the audio files repeats. Playback controls are effective for the JPEG slideshow only.
- To play the contents of the whole disc rather than just the current folder, exit the Disc Navigator and start playback using the ► (play) button.

Looping a section of a disc

The A-B Repeat function allows you to specify two points (A and B) within a track (CD, Video CD) or title (DVD) that form a loop which is played over and over.

- You can't use A-B Repeat with Video CDs in PBC mode, or WMA/MP3/DivX video files.

1 During playback, press PLAY MODE and select 'A-B Repeat' from the list of functions on the left.



2 Press ENTER on 'A(Start Point)' to set the loop start point.

3 Press ENTER on 'B(End Point)' to set the loop end point.

After pressing **ENTER**, playback jumps back to the start point and plays the loop.

4 To resume normal playback, select 'Off' from the menu.

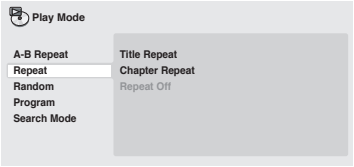
Using repeat play

There are various repeat play options, depending on the kind of disc loaded. It's also possible to use repeat play together with program play to repeat the tracks/chapters in the program list (see *Creating a program list* on page 29).

Important

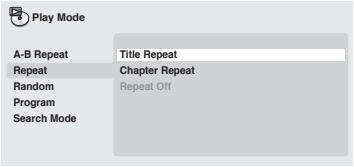
- You can't use Repeat play with Video CDs in PBC mode, or with WMA/MP3 discs.
- You can't use repeat and random play at the same time.

1 During playback, press PLAY MODE and select 'Repeat' from the list of functions on the left.



2 Select a repeat play option.
If program play is active, select **Program Repeat** to repeat the program list, or **Repeat Off** to cancel.

The repeat options available depend on the kind of disc loaded. For example, for DVD discs, you can select **Title Repeat** or **Chapter Repeat** (or **Repeat Off**).



- For CDs and Video CDs, select **Disc Repeat** or **Track Repeat** (or **Repeat Off**).
- For DivX video discs, select **Title Repeat** (or **Repeat Off**).

Using random play

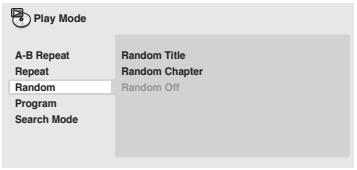
Use the random play function to play titles or chapters (DVD-Video), or tracks (CD, Video CD) at random. (Note that the same track/title/chapter may play more than once.)

You can set the random play option when a disc is playing or stopped.

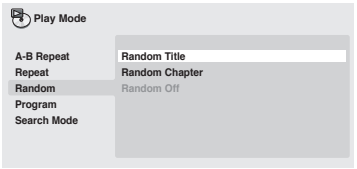
Important

- Random play remains in effect until you select **Random Off** from the random play menu options.
- You can't use random play with VR format DVD-RW discs, Video CDs playing in PBC mode, WMA/MP3 discs, DivX video discs, or while a DVD disc menu is being displayed.
- You can't use random play together with program or repeat play.

1 Press PLAY MODE and select 'Random' from the list of functions on the left.



2 Select a random play option.
The random play options available depend on the kind of disc loaded. For example, for DVD discs, you can select **Random Title** or **Random Chapter** (or **Random Off**).



- For CDs and Video CDs, select **On** or **Off** to switch random play on or off.

Tip

- Use the following controls during random play:

Button	What it does
⏭	Selects a new track/title/chapter at random.
⏮	Returns to the beginning of the current track/title/chapter; further presses select another random track/title/chapter.

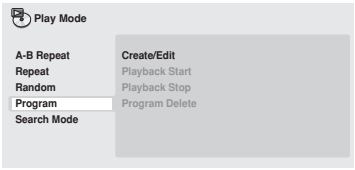
Creating a program list

This feature lets you program the play order of titles/chapters/tracks on a disc.

Important

- You can't use Program play with VR format DVD-RW discs, Video CDs playing in PBC mode, WMA/MP3 discs, DivX video discs, or while a DVD disc menu is being displayed.

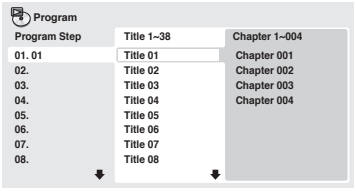
1 Press PLAY MODE and select 'Program' from the list of functions on the left.



2 Select 'Create/Edit' from the list of program options.

3 Use the cursor buttons and ENTER to select a title, chapter or track for the current step in the program list.

For a DVD disc, you can add a title or a chapter to the program list.



- For a CD or Video CD, select a track to add to the program list.

After pressing **ENTER** to select the title/chapter/track, the step number automatically moves down one.

4 Repeat step 3 to build up a program list.

A program list can contain up to 24 titles/chapters/tracks.

- You can insert steps into the middle of a program list by just highlighting the position where you want the new step to appear and entering a title/chapter/track number.
- To delete a step, highlight it and press **CLEAR**.

5 To play the program list, press ► (play).

Program play remains active until you turn off program play (see below), erase the program list (see below), eject the disc or switch off the player.

Tip

- Use the following controls during program play:

Button	What it does
PLAY MODE	Save the program list and exit the program edit screen without starting playback (**HOME MENU** does the same).
►►I	Skip to the next step in the program list.

Other functions available from the program menu

There are a number of other options in the program menu in addition to Create/Edit.

- **Playback Start** – Starts playback of a saved program list
- **Playback Stop** – Turns off program play, but does not erase the program list
- **Program Delete** – Erases the program list and turns off program play

Searching a disc

You can search DVD discs by title or chapter number, or by time; CDs and Video CDs by track number or time; DivX video discs by time.

Important

- Search functions are not available with Video CDs in PBC mode, or with WMA/MP3 discs.

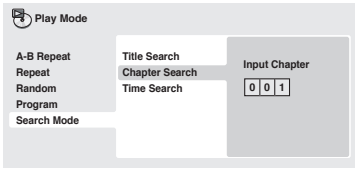
1 Press PLAY MODE and select 'Search Mode' from the list of functions on the left.

2 Select a search mode.

The search options available depend on the kind of disc loaded.

- The disc must be playing in order to use time search.

3 Use the number buttons to enter a title, chapter or track number, or a time.



- For a time search, enter the number of minutes and seconds into the currently playing title (DVD/ DivX video) or track (CD/ Video CD) you want playback to resume from. For example, press **4**, **5**, **0**, **0** to have playback start from 45 minutes into the disc. For 1 hour, 20 minutes and 30 seconds, press **8**, **0**, **3**, **0**.

4 Press ENTER to start playback.

Switching subtitles

Some DVD and DivX video discs have subtitles in one or more languages; the disc box will usually tell you which subtitle languages are available. You can switch subtitle language during playback.

1 Press SUBTITLE repeatedly to select a subtitle option.

Note

- Some discs only allow you to change subtitle language from the disc menu. Press **TOP MENU** or **MENU** to access.
- To set subtitle preferences, see *Subtitle Language* on page 36.
- See *Displaying DivX subtitle files* on page 9 for more on DivX subtitles.

Switching audio language/ channels

When playing a DVD and DivX video disc recorded with dialog in two or more languages, you can switch audio language during playback.

When playing a VR format DVD-RW disc recorded with dual-mono audio, you can switch between the main, sub, and mixed channels during playback.

When playing a Video CD, you can switch between stereo, just the left channel or just the right channel.

1 Press AUDIO repeatedly to select an audio language/channel option.
The language/channel information is shown on-screen.

Note

- Some DVD discs only allow you to change audio language from the disc menu. Press **TOP MENU** or **MENU** to access.
- To set DVD audio language preferences, see *Language settings* on page 36.

Zooming the screen

Using the zoom feature you can magnify a part of the screen by a factor of 2 or 4, while watching a DVD, DivX video title or Video CD or playing a JPEG disc.

1 During playback, use the ZOOM button to select the zoom factor (Normal, 2x or 4x).

- Since DVD, Video CD, DivX video title and JPEG pictures have a fixed resolution, picture quality will deteriorate, especially at 4x zoom. This is not a malfunction.

2 Use the cursor buttons to change the zoomed area.
You can change the zoom factor and the zoomed area freely during playback.

- If the navigation square at the top of the screen disappears, press **ZOOM** again to display it.

Switching camera angles

Some DVD discs feature scenes shot from two or more angles—check the disc box for details.

When a multi-angle scene is playing, a icon appears on screen to let you know that other angles are available (this can be switched off if you prefer—see *Display settings* on page 37).

1 During playback (or when paused), press ANGLE to switch angle.

Displaying disc information

Various track, chapter and title information, such as the elapsed and remaining playing time can be displayed on-screen while a disc is playing.

1 To show/switch/hide the information displayed, press DISPLAY repeatedly.

- When a disc is playing, the information appears at the top of the screen. Keep pressing **DISPLAY** to change the displayed information.

Chapter 6

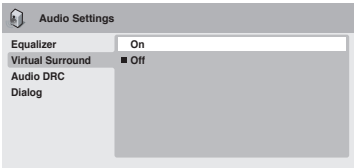
Audio Settings and Video Adjust menus

Audio Settings menu

The Audio Settings menu offers features for adjusting the way discs sound.

1 Press HOME MENU and select 'Audio Settings' from the on-screen display.

2 Select and change settings using the ⬆/⬇/⬅/➡ (cursor) buttons, and ENTER.



Audio DRC

- Settings: **High**, **Medium**, **Low**, **Off** *(default)*

When watching Dolby Digital DVDs at low volume, it's easy to lose the quieter sounds completely—including some of the dialog. Switching Audio DRC (Dynamic Range Control) to on can help by bringing up the quieter sounds, while controlling loud peaks.

How much of a difference you hear depends on the material you're listening to. If the material doesn't have wide variations in volume, you may not notice much change.

Note

- Audio DRC is only effective with Dolby Digital audio sources.
- Audio DRC is only effective through the digital output when **Digital Out** is set to **On**, and **Dolby Digital Out** is set to **Dolby Digital > PCM** (see *Digital Audio Out settings* on page 34).
- The effect of Audio DRC also depends on your speakers and AV receiver settings.

Virtual Surround

- Settings: **On**, **Off** *(default)*

Switch on Virtual Surround to enjoy realistic surround sound effects from just two speakers.

Tip

- You can also use the **SURROUND** button on the remote control to switch Virtual Surround on.

Note

- Virtual Surround doesn't work with DTS, through either the analog or digital outputs.
- 96 kHz linear PCM audio is automatically downsampled to 48 kHz if Virtual Surround is switched on.

- If the player is outputting Dolby Digital, DTS or MPEG bitstream audio (in other words, no conversion to PCM), Virtual Surround has no effect on the audio from the digital output. See *Digital Audio Out settings* on page 34 for how to set up the digital output formats.
- How good the surround effect is varies with the disc.

Dialog

- Settings: **High**, **Medium**, **Low**, **Off** *(default)*

The Dialog feature is designed to make the dialog stand out from other background sounds in the soundtrack.

Equalizer

- Settings: **Rock**, **Pop**, **Live**, **Dance**, **Techno**, **Classic**, **Soft**, **Off** *(default)*

The various preset EQ curves are designed to suit various styles of music.

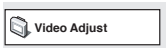
Note

- 96 kHz linear PCM audio is automatically downsampled to 48 kHz if the Equalizer is switched on.

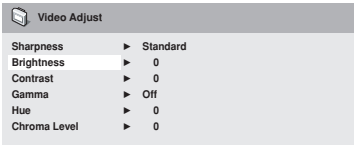
Video Adjust menu

From the Video Adjust screen you can adjust various settings that affect how the picture is presented.

1 Press HOME MENU and select 'Video Adjust' from the on-screen display.



2 Make settings using the ⬆/⬇/⬅/➡ (cursor) buttons, and ENTER.



You can adjust the following picture quality settings:

- **Sharpness** – Adjusts the sharpness of edges in the picture (**Fine**, **Standard** *(default)*, **Soft**).
- **Brightness** – Adjusts the overall brightness (**–20** to **+20**).
- **Contrast** – Adjusts the contrast between light and dark (**–16** to **+16**).
- **Gamma** – Adjusts the 'warmth' of the picture (**High**, **Medium**, **Low**, **Off** *(default)*).
- **Hue** – Adjusts the red/green balance (**Green 9** to **Red 9**).
- **Chroma Level** – Adjusts how saturated colors appear (**–9** to **+9**).

Adjust the Brightness, Contrast, Hue and Chroma Level settings using the ⬅/➡ (cursor left/right) buttons.

3 Press ENTER to return to the Video Adjust screen, or HOME MENU to exit.

Chapter 7
Initial Settings menu

Using the Initial Settings menu

The Initial Settings menu provides audio and video output settings, parental lock settings, and display settings, among others.

If an option is grayed out it means that it cannot be changed at the current time. This is usually because a disc is playing. Stop the disc, then change the setting.

1 Press HOME MENU and select 'Initial Settings'.

2 Use the cursor buttons and ENTER to select the setting and option you want to set.

All the settings and options are explained on the following pages.

Note

- In the table below, the default setting is shown in **bold**: other settings are shown in *italics*.
- The Digital Audio Out settings only need to be set if you have connected the digital output of this player to an AV receiver, or other equipment.
- Check the operating instructions supplied with your other equipment to see which digital audio formats it's compatible with.
- Some settings, such as **TV Screen**, **Audio Language** and **Subtitle Language** may be overridden by the DVD disc. Often these settings can also be made from the DVD disc menu.
- The **HDMI Out**, **HDMI Resolution** and **HDMI Color** settings only need to be set if you connected this player to an HDMI-compatible component using the HDMI connector.
- The **Digital Audio Out**, **Component Out** and **AV Connector Out** settings cannot be set if the player is connected to an HDMI-compatible component using the HDMI connector.

Digital Audio Out settings

Setting	Option	What it means
Digital Out	**On**	Digital audio is output from the digital outputs.
	Off	No digital audio output.
Dolby Digital Out	**Dolby Digital**	Dolby Digital encoded digital audio is output when playing a Dolby Digital DVD disc.
	Dolby Digital > PCM	Dolby Digital audio is converted to PCM audio before being output.

Setting	Option	What it means
DTS Out	**DTS**	DTS encoded digital audio is output when playing a DTS disc. (Noise will be output if your amplifier/receiver is not compatible with DTS audio.)
	Off	No digital audio is output when playing a DTS disc.
96 kHz PCM Out	**96kHz > 48kHz**	96 kHz digital audio is converted to 48 kHz for digital output.
	96kHz	96 kHz digital audio is output as is at 96 kHz.
MPEG Out	**MPEG > PCM**	MPEG encoded digital audio is converted to PCM audio for digital output.
	MPEG	MPEG encoded digital audio is output as is.
HDMI Out* ** DV-490V only.*	**LPCM (2 ch)**	Set if your monitor or device only accepts stereo input. On this setting multichannel audio is downmixed to 2 channels for stereo linear PCM output. (In case of DTS source, the HDMI audio output is turned off.)
	Auto	Dolby Digital, DTS and MPEG sources are processed according to how they were encoded, but if your amplifire/ monitor is not compatible with DTS audio, DTS audio output from HDMI is turned off. Linear PCM sources are heard as is.
	Off	No digital audio output.

Video Output settings

Setting	Option	What it means
TV Screen (This setting effective for analog and HDMI video output. See also *Screen sizes and disc formats* on page 41.)	**4:3 (Letter Box)**	Set if you have a conventional 4:3 TV. Widescreen movies are shown with black bars top and bottom.
	4:3 (Pan & Scan)	Set if you have a conventional 4:3 TV. Widescreen movies are shown with the sides cropped so that the image fills the screen.
	16:9 (Wide)	Set if you have a widescreen TV.
Component Out	**Interlace**	Set if your TV is not compatible with progressive scan video.
	Progressive	Set if your TV is compatible with progressive scan video (see your TV's instruction manual for details). See also *Switching the video output to interlace using the front panel controls* on page 13. *Note that progressive scan video is only output from the component video jacks and that there is no output from the composite and S-video jacks when this setting is selected.*

Setting	Option	What it means
HDMI Resolution* ** DV-490V only.*	*1920x1080i*	Set if your TV supports 1920 x 1080 pixel interlace video.
	1280x720p	Set if your TV supports 1280 x 720 pixel progressive-scan video.
	720x480p	Set if your TV supports 720 x 480 pixel.
	720x480i	Set if your TV supports 720 x 480 pixel.
HDMI Color* *(Default changes depending on device connected.)* ** DV-490V only.*	*Full range RGB*	If colors are weak, this gives brighter colors and deeper black.
	RGB	Use this setting if colors appear overly rich on the Full Range RGB setting.
	Component	Outputs component video format (default setting for HDMI-compatible devices).

Language settings

Setting	Option	What it means
Audio Language	**English**	If there is an English soundtrack on the disc then it will be played.
	Languages as displayed	If there is the language selected on the disc, then it will be played.
	Other Language	Select to choose a language other than the ones displayed (see page 42).
Subtitle Language (See also *Displaying DivX subtitle files* on page 10.)	**English**	If there are English subtitles on the disc then they will be displayed.
	Languages as displayed	If there is the subtitle language selected on the disc, then it will be displayed.
	Other Language	Select to choose a language other than the ones displayed (see page 42).
DVD Menu Lang.	**w/Subtitle Lang.**	DVD disc menus will be displayed in the same language as your selected subtitle language, if possible.
	Languages as displayed	DVD disc menus will be displayed in the selected language, if possible.
	Other Language	Select to choose a language other than the ones displayed (see page 42).
Subtitle Display	**On**	Subtitles are displayed according to your selected subtitle language (see above).
	Off	Subtitles are always off by default when you play a DVD disc (note that some discs override this setting).

Display settings

Setting	Option	What it means
OSD Language	**English**	On-screen displays of the player are in English.
	Languages as displayed	On-screen displays are shown in the language selected.
Angle Indicator	**On**	A camera icon is displayed on-screen during multi-angle scenes on a DVD disc.
	Off	No multi-angle indication is shown.

Options settings

Setting	Option	What it means
Parental Lock	**–**	See *Parental Lock* on page 38.
DivX VOD	**Display**	See *About DivX® VOD content* on page 39.

Parental Lock

- Default level: **Off**; Default password: *none*; Default Country/Area code: **us (2119)**

To give you some control over what your children watch on your DVD player, some DVD-Video discs feature a Parental Lock level. If your player is set to a lower level than the disc, the disc won't play.

Some discs also support the Country/Area Code feature. The player does not play certain scenes on these discs, depending on the Country/Area Code you set.

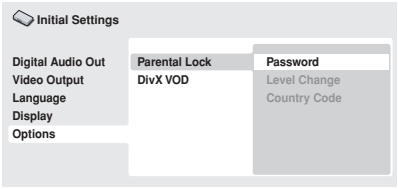
Note

- Not all discs use Parental Lock, and will play without requiring the password first.
- If you forget your password, you'll need to reset the player to register a new password (see *Resetting the player* on page 42).

Registering a new password

You must register a password before you can change the Parental Lock level or enter a Country code.

1 Select 'Options', then 'Password'.



2 Use the number buttons to enter a 4-digit password.
The numbers you enter show up as asterisks (*) on-screen.

3 Press ENTER to register the password.
You will return to the Options menu screen.

Changing your password

To change your password, confirm your existing password then enter a new one.

1 Select 'Password Change'.

2 Use the number buttons to enter your existing password, then press ENTER.

3 Enter a new password and press ENTER.
This registers the new password and you will return to the Options menu screen.

Setting/changing the Parental Lock

1 Select 'Level Change'.

2 Use number buttons to enter your password, then press ENTER.

3 Select a new level and press ENTER.
- Press ⬅ (cursor left) repeatedly to lock more levels (more discs will require the password); press ➡ (cursor right) to unlock levels. You can't lock level 1.

This sets the new level and you will return to the Options menu screen.

Setting/changing the Country/Area code

You can find the *Country/Area code list* on page 46.

1 Select 'Country Code'.

2 Use number buttons to enter your password, then press ENTER.

3 Select a Country/Area code and press ENTER.
There are two ways you can do this:

- Select by code letter: Use ⬆/⬇ (cursor up/down) to change the Country/Area code.
- Select by code number: Press ➡ (cursor right) then use the number buttons to enter the 4-digit Country/Area code.

The new Country/Area code is set and you will return to the Options menu screen. Note that the new Country/Area code doesn't take effect until the next disc is loaded (or the current disc is reloaded).

About DivX® VOD content

In order to play DivX VOD (video on demand) content on this player, you first need to register the player with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.

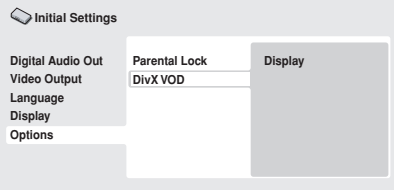
Important

- DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.
- If you load a disc that contains DivX VOD content not authorized for your player, the message **Authorization Error** is displayed and the content will not play.
- Resetting the player (as described in *Resetting the player* on page 42) will not cause you to lose your registration code.

Displaying your DivX VOD registration code

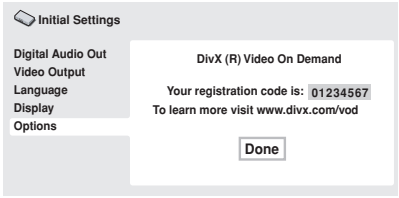
1 Press HOME MENU and select 'Initial Settings'.

2 Select 'Options', then 'DivX VOD'.



3 Select 'Display'.

Your 8-digit registration code is displayed.



Make a note of the code as you will need it when you register with a DivX VOD provider.

Playing DivX® VOD content

Some DivX VOD content may only be playable a fixed number of times. When you load a disc containing this type of DivX VOD content, the remaining number of plays is shown on-screen and you then have the option of playing the disc (thereby using up one of the remaining plays), or stopping. If you load a disc that contains expired DivX VOD content (for example, content that has zero remaining plays), the message **Rental Expired** is displayed.

If your DivX VOD content allows an unlimited number of plays, then you may load the disc into your player and play the content as often as you like, and no message will be displayed.

Chapter 8
Additional information

Taking care of your player and discs

General

Hold discs by the edge or by the center hole and edge.

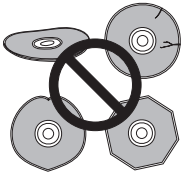
When you're not using a disc, return it to its case and store upright. Avoid leaving discs in excessively cold, humid, or hot environments (including under direct sunlight).

Don't glue paper or put stickers on to discs. Do not use a pencil, ball-point pen or other sharp-tipped writing instrument to write on the disc.

Don't use self-adhesive disc labels on discs as these can cause the disc to warp slightly during playback causing distortion in the picture and/or sound.

Damaged and shaped discs

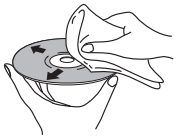
Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the player.



This player is designed to be used only with conventional, fully circular discs. Do not use shaped discs. Pioneer disclaims all liability arising in connection with the use of shaped discs.

Cleaning discs

Fingerprints and dust on discs can affect playback performance. Clean using a soft, dry cloth, wiping the disc lightly from the center to the outside edge as shown below.



If necessary, use a cloth soaked in alcohol, or a commercially available CD/DVD cleaning kit to clean a disc more thoroughly. Never use benzine, thinner or other cleaning agents, including products designed for cleaning vinyl records.

Cleaning the unit's exterior

Unplug the unit before cleaning.

Use a dry cloth to wipe off dust and dirt. If the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water and wrung out well, then wipe again with a dry cloth.

Do not use furniture wax or cleaners. Never use thinners, benzine or insecticide sprays or other chemicals on or near this unit.

If you use a chemical-impregnated cleaning cloth, read the instructions carefully before use. These cloths may leave smear marks on half-mirror finish surfaces; if this happens, finish with a dry cloth.

Cleaning the pickup lens

The DVD player's lens should not become dirty in normal use, but if for some reason it should malfunction due to dust or dirt, consult your nearest Pioneer-authorized service center. We do not recommend using commercially available lens cleaners for CD players.

Condensation

Condensation may form inside the player if it is brought into a warm room from outside, or if the temperature of the room rises quickly. Although the condensation won't damage the player, it may temporarily impair its performance. Leave it to adjust to the warmer temperature for about an hour before switching on.

Moving the player

If you need to move the player, first press ⏻ **STANDBY/ON** on the front panel to turn the player off. Wait for **-OFF-** to disappear from the display, then unplug the power cable. Never lift or move the unit during playback—discs rotate at a high speed and may be damaged.

Screen sizes and disc formats

DVD-Video discs come in several different screen aspect ratios, ranging from TV programs, which are generally 4:3, to CinemaScope widescreen movies, with an aspect ratio of up to about 7:3.

Televisions, too, come in different aspect ratios; 'standard' 4:3 and widescreen 16:9.

Widescreen TV users

If you have a widescreen TV, the **TV Screen** setting (page 35) of this player should be set to **16:9 (Wide)**.

When you watch discs recorded in 4:3 format, you can use the TV controls to select how the picture is presented. Your TV may offer various zoom and stretch options; see the instructions that came with your TV for details.

Please note that some movie aspect ratios are wider than 16:9, so even though you have a widescreen TV, these discs will still play in a 'letter box' style with black bars at the top and bottom of the screen.

Standard TV users

If you have a standard TV, the **TV Screen** setting (page 35) of this player should be set to **4:3 (Letter Box)** or **4:3 (Pan&Scan)**, depending on which you prefer.

Set to **4:3 (Letter Box)**, widescreen discs are shown with black bars top and bottom.

Set to **4:3 (Pan&Scan)**, widescreen discs are shown with the left and right sides cropped. Although the picture looks larger, you don't actually see the whole picture.

Please note that many widescreen discs override the player's settings so that the disc is shown in letter box format regardless of the setting.

Note

- Using the **16:9 (Wide)** setting with a standard 4:3 TV, or either of the 4:3 settings with a widescreen TV, will result in a distorted picture.

Resetting the player

Use this procedure to reset all the player's settings to the factory default.

1 Switch the player into standby.

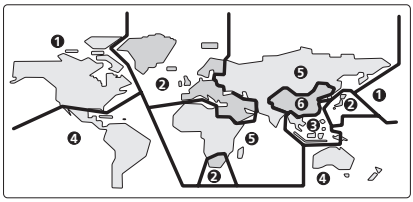
2 Using the front panel buttons, hold down the ■ (stop) button and press ⏻ STANDBY/ON to switch the player back on.

All the player's settings are now reset.

DVD-Video regions

All DVD-Video discs carry a region mark on the case somewhere that indicates which region(s) of the world the disc is compatible with. Your DVD player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. Discs marked **ALL** will play in any player.

The diagram below shows the various DVD regions of the world.



Selecting languages using the language code list

Some of the language options (such as 'DVD Menu Lang.' in the Setup Navigator) allow you to set your preferred language from any of the 136 languages listed in the language code list on page 46.

1 Select 'Other Language'.

2 Use the ⬅/➡ (cursor left/right) buttons to select either a code letter or a code number.

3 Use the ⬆/⬇ (cursor up/down) buttons to select a code letter or a code number.
See *Language code list* on page 46 for a complete list of languages and codes.

HDMI troubleshooting (DV-490V)

Incorrect operation is often mistaken for trouble or malfunction. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified after checking the items below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

Problem	Remedy
No HDMI audio output.	• This unit has been designed to be compliant with HDMI (High Definition Multimedia Interface). Depending on the component you have connected, unreliable signal transfers may result. • If the front panel HDMI indicator is lit: – You won't hear any sound from the HDMI output if the source component is only DVI/HDCP-compatible. • If the front panel HDMI indicator is unlit then: – Make sure that you've selected this player as the HDMI input in the settings for the component you're using. You may need to refer to the instruction manual of the component to do this. – Check that the HDMI cable is connected properly and that the cable isn't damaged. – Check that components connected using the HDMI interface are switched on and HDMI compatible.
No HDMI video output	• Make sure that you've selected this player as the HDMI input in the settings for the component you're using. You may need to refer to the instruction manual of the component to do this. • Check that the HDMI cable is connected properly and that the cable isn't damaged. • Check that components connected using the HDMI interface are switched on and HDMI compatible. • This unit has been designed to be compliant with HDMI (High Definition Multimedia Interface). Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers. • Make sure the resolution on this player matches that of the component you have connected using HDMI. See *HDMI Resolution* on page 36 to change the HDMI resolution. See *Resetting the output resolution to the default setting with HDMI connection* on page 15 if you want to reset the output resolution.
No multichannel HDMI audio.	• Make sure the **HDMI Out** setting is set to **Auto** (see *HDMI Out* on page 35 to do this).

Problem	Remedy
A connected DVI component (with HDCP) doesn't work with this player.	• This unit has been designed to be compliant with HDMI (High Definition Multimedia Interface). Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers.

Note

- Static electricity or other external influences may cause malfunctioning of this unit. In this case, unplug the power cord and then plug back in. This will usually reset the unit for proper operation. If this does not correct the problem, please consult your nearest Pioneer service center.

Glossary

Analog audio Direct representation of sound by an electrical signal. See also *Digital audio*.

Aspect ratio The width of a TV screen relative to its height. Conventional TVs are 4:3; widescreen models are 16:9.

Digital audio Indirect representation of sound using numbers. See also *Sampling frequency* and *Analog audio*.

DivX[*1] DivX is a media technology created by DivX, Inc. DivX media files contain compressed video. DivX files can also include advanced media features like menus, subtitles, and alternate audiotracks.

Dolby Digital[*2] A multi-channel audio encoding system developed by Dolby Laboratories that enables far more audio to be stored on a disc than PCM encoding. See also *PCM (Pulse Code Modulation)*.

DRM DRM (Digital Rights Management) copy protection is a technology designed to prevent unauthorized copying by restricting playback, etc. of material on devices other the PC (or other WMA recording equipment) used to record it. For detailed information, please see the instruction manuals or help files that came with your PC (or other WMA recording equipment) and/or software.

DTS[*3] A multi-channel audio encoding system developed by Digital Theater Systems that enables far more audio to be stored on a disc than PCM encoding. See also *PCM (Pulse Code Modulation)*.

EXIF (Exchangeable Image File) A file format developed by Fuji Photo Film for digital still cameras. Digital cameras from various manufacturers use this compressed file format which carries date, time and thumbnail information, as well as the picture data.

File extension A tag added to the end of a filename to indicate the type of file. For example, ".mp3" indicates an MP3 file.

HDMI[*4] **(DV-490V only)** HDMI (High-Definition Multimedia Interface) is a high-speed digital interface which has the capability to support standard, enhanced, or high-definition video plus standard to multi-channel surround-sound audio on a single digital connection. HDMI features include uncompressed digital video, a bandwidth of up to 5 gigabytes per second and communication between the AV source and AV devices such as DTVs.

ISO 9660 format International standard for the volume and file structure of CD-ROM discs.

JPEG A standard file format used for still images. JPEG files are identified by the file extension ".jpg".

MP3	MP3 (MPEG1 audio layer 3) is a compressed stereo audio file format. Files are recognized by their file extension ".mp3".
MPEG audio	An audio format used on Video CDs and some DVD discs.
PBC (PlayBack Control)	A system of navigating a Video CD through on-screen menus recorded onto the disc.
PCM (Pulse Code Modulation)	Digital audio encoding system found on CDs. Good quality, but requires a lot of data compared to Dolby Digital, DTS and MPEG encoded audio. See also *Digital audio*.
Progressive scan video	All the lines that make up a video picture are updated in one pass (compared to interlace which takes two passes to update the whole picture).
Regions	These associate DVD-Video discs and players with particular areas of the world. See *DVD-Video regions* on page 42 for more information.
Sampling frequency	The rate at which sound is measured to be turned into digital audio data. The higher the rate, the better the sound quality. CD is 44.1 kHz; DVD can be up to 96 kHz. See also *Digital audio*.
WMA	WMA is short for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. Files are recognized by their file extension ".wma". Microsoft, Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

*[*1] DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.*

*[*2] Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.*

*[*3] "DTS" and "DTS Digital Out" are registered trademarks of Digital Theater Systems, Inc.*

*[*4] HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.*

Language code list

Language (Language code letter), **Language code**

Japanese (ja), **1001**
English (en), **0514**
French (fr), **0618**
German (de), **0405**
Italian (it), **0920**
Spanish (es), **0519**
Chinese (zh), **2608**
Dutch (nl), **1412**
Portuguese (pt), **1620**
Swedish (sv), **1922**
Russian (ru), **1821**
Korean (ko), **1115**
Greek (el), **0512**
Afar (aa), **0101**
Abkhazian (ab), **0102**
Afrikaans (af), **0106**
Amharic (am), **0113**
Arabic (ar), **0118**
Assamese (as), **0119**
Aymara (ay), **0125**
Azerbaijani (az), **0126**
Bashkir (ba), **0201**
Byelorussian (be), **0205**
Bulgarian (bg), **0207**
Bihari (bh), **0208**
Bislama (bi), **0209**
Bengali (bn), **0214**
Tibetan (bo), **0215**
Breton (br), **0218**
Catalan (ca), **0301**
Corsican (co), **0315**
Czech (cs), **0319**
Welsh (cy), **0325**
Danish (da), **0401**
Bhutani (dz), **0426**
Esperanto (eo), **0515**
Estonian (et), **0520**
Basque (eu), **0521**
Persian (fa), **0601**
Finnish (fi), **0609**
Fiji (fj), **0610**
Faroese (fo), **0615**
Frisian (fy), **0625**
Irish (ga), **0701**
Scots-Gaelic (gd), **0704**
Galician (gl), **0712**
Guarani (gn), **0714**
Gujarati (gu), **0721**
Hausa (ha), **0801**
Hindi (hi), **0809**
Croatian (hr), **0818**
Hungarian (hu), **0821**
Armenian (hy), **0825**
Interlingua (ia), **0901**
Interlingue (ie), **0905**
Inupiak (ik), **0911**
Indonesian (in), **0914**
Icelandic (is), **0919**
Hebrew (iw), **0923**
Yiddish (ji), **1009**
Javanese (jw), **1023**
Georgian (ka), **1101**
Kazakh (kk), **1111**
Greenlandic (kl), **1112**
Cambodian (km), **1113**
Kannada (kn), **1114**
Kashmiri (ks), **1119**
Kurdish (ku), **1121**
Kirghiz (ky), **1125**
Latin (la), **1201**
Lingala (ln), **1214**
Laothian (lo), **1215**
Lithuanian (lt), **1220**
Latvian (lv), **1222**
Malagasy (mg), **1307**
Maori (mi), **1309**
Macedonian (mk), **1311**
Malayalam (ml), **1312**
Mongolian (mn), **1314**
Moldavian (mo), **1315**
Marathi (mr), **1318**
Malay (ms), **1319**
Maltese (mt), **1320**
Burmese (my), **1325**
Nauru (na), **1401**
Nepali (ne), **1405**
Norwegian (no), **1415**
Occitan (oc), **1503**
Oromo (om), **1513**
Oriya (or), **1518**
Panjabi (pa), **1601**
Polish (pl), **1612**
Pashto, Pushto (ps), **1619**
Quechua (qu), **1721**
Rhaeto-Romance (rm), **1813**
Kirundi (rn), **1814**
Romanian (ro), **1815**
Kinyarwanda (rw), **1823**
Sanskrit (sa), **1901**
Sindhi (sd), **1904**
Sangho (sg), **1907**
Serbo-Croatian (sh), **1908**
Sinhalese (si), **1909**
Slovak (sk), **1911**
Slovenian (sl), **1912**
Samoan (sm), **1913**
Shona (sn), **1914**
Somali (so), **1915**
Albanian (sq), **1917**
Serbian (sr), **1918**
Siswati (ss), **1919**
Sesotho (st), **1920**
Sundanese (su), **1921**
Swahili (sw), **1923**
Tamil (ta), **2001**
Telugu (te), **2005**
Tajik (tg), **2007**
Thai (th), **2008**
Tigrinya (ti), **2009**
Turkmen (tk), **2011**
Tagalog (tl), **2012**
Setswana (tn), **2014**
Tonga (to), **2015**
Turkish (tr), **2018**
Tsonga (ts), **2019**
Tatar (tt), **2020**
Twi (tw), **2023**
Ukrainian (uk), **2111**
Urdu (ur), **2118**
Uzbek (uz), **2126**
Vietnamese (vi), **2209**
Volapük (vo), **2215**
Wolof (wo), **2315**
Xhosa (xh), **2408**
Yoruba (yo), **2515**
Zulu (zu), **2621**

Country/Area code list

Country/Area, **Country/Area code**, **Country/Area code letter**

Argentina, **0118**, **ar**
Australia, **0121**, **au**
Austria, **0120**, **at**
Belgium, **0205**, **be**
Brazil, **0218**, **br**
Canada, **0301**, **ca**
Chile, **0312**, **cl**
China, **0314**, **cn**
Denmark, **0411**, **dk**
Finland, **0609**, **fi**
France, **0618**, **fr**
Germany, **0405**, **de**
Hong Kong, **0811**, **hk**
India, **0914**, **in**
Indonesia, **0904**, **id**
Italy, **0920**, **it**
Japan, **1016**, **jp**
Korea, Republic of, **1118**, **kr**
Malaysia, **1325**, **my**
Mexico, **1324**, **mx**
Netherlands, **1412**, **nl**
New Zealand, **1426**, **nz**
Norway, **1415**, **no**
Pakistan, **1611**, **pk**
Philippines, **1608**, **ph**
Portugal, **1620**, **pt**
Russian Federation, **1821**, **ru**
Singapore, **1907**, **sg**
Spain, **0519**, **es**
Sweden, **1905**, **se**
Switzerland, **0308**, **ch**
Taiwan, **2023**, **tw**
Thailand, **2008**, **th**
United Kingdom, **0702**, **gb**
USA, **2119**, **us**

Specifications

General

System ..... DVD player
Power requirements .....AC 120 V, 60 Hz
Power consumption .....7 W
Power consumption (standby) ..... 0.5 W
Weight ..... 1.8 kg / 4 lb
Dimensions:
..... 420 mm (W) x 49.5 mm (H) x 214 mm (D)
(16-9/16 in. (W) x 1-15/16 in. (H) x 8-7/16 in. (D))
Operating temperature ..... +5 °C to +35 °C
(+41 °F to +95 °F)
Operating humidity ..... 5 % to 85 %
(no condensation)

Component video output

Y (luminance) - Output level ..... 1 Vp-p (75 Ω)
P_B (color) - Output level ..... 0.7 Vp-p (75 Ω)
P_R (color) - Output level ..... 0.7 Vp-p (75 Ω)
Jack..... RCA

Video output

Output level ..... 1 Vp-p (75 Ω)
Jack..... RCA

Audio output (1 stereo pair)

Output level .....During audio output
200 mVrms (1 kHz, –20 dB)
Number of channels 2
Jacks ..... RCA

HDMI output (DV-490V)

HDMI output .....19 pin

Digital audio characteristics

Frequency response ..... 4 Hz to 44 kHz
(DVD fs: 96 kHz)
S/N ratio .....115 dB
Dynamic range .....88 dB
Total harmonic distortion..... 0.0065 %
Wow and flutter .....Limit of measurement
(±0.001 % W. PEAK) or lower

Digital output

Coaxial digital output .....RCA jack

Accessories

Audio/video cable..... 1
Remote control..... 1
AA/R6P dry cell batteries 2
Warranty card..... 1
Operating Instructions

The specifications and design of this product are subject to change without notice, due to improvement.

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Pioneer *sound.vision.soul*

Audio Multi-Channel Receiver

SX-316-S

Operating Instructions

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D3-4-2-1-1_En-A

WARNING
To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment. D3-4-2-1-7a_A_En

WARNING
Before plugging in for the first time, read the following section carefully.
The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel. D3-4-2-1-4_A_En

WARNING
This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filed with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture. D3-4-2-1-3_A_En

Operating Environment
Operating environment temperature and humidity:
+5 ºC to +35 ºC (+41 ºF to +95 ºF); less than 85 %RH (cooling vents not blocked)
Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light) D3-4-2-1-7c_A_En

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period. K041_En

If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal.
The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation). D3-4-2-2-1a_A_En

CAUTION
The ⏻STANDBY/ON switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation). D3-4-2-2-2a_A_En

VENTILATION CAUTION
When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 40 cm at top, 10 cm at rear, and 20 cm at each side).
WARNING
Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed. D3-4-2-1-7b_A_En

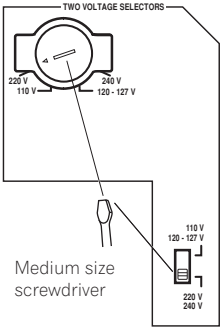
Voltage selector

You can find the voltage selector switch on the rear panel of multi-voltage models.

The factory setting for the voltage selector is 220 V. Please set it to the correct voltage for your country or region.

- Saudi Arabia operates on 127V and 220V mains voltage. Please set to the correct voltage before using.
- For Taiwan, please set to 110 V before using.
- For Mexico, please set to 120 V to 127 V before using.

Before changing the voltage, disconnect the AC power cord. Use a medium size screwdriver to change the voltage selector switch.



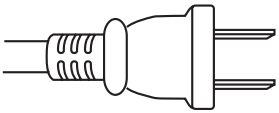
D3-4-2-1-5_En

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement. S002_En

For Taiwan exclusively

Taiwanese two pin flat-bladed plug



Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT: THE MOULDED PLUG

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 10 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 10 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be obtained from your local dealer.

If the fitted moulded plug is unsuitable for your socket outlet, then the fuse shall be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

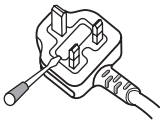
If a new plug is to be fitted, please observe the wiring code as shown below. If in any doubt, please consult a qualified electrician.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

Blue : Neutral Brown : Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows ;

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter **N** or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter **L** or coloured RED.



How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse.

D3-4-2-1-2-2_B_En

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English

Chapter 1: Before you start

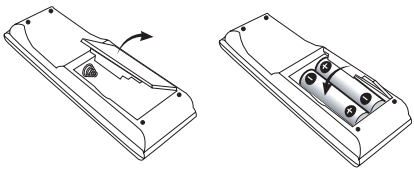
Checking what's in the box

Please check that you've received the following supplied accessories:

- AM loop antenna
- FM wire antenna
- AA size IEC R6 dry cell batteries (to confirm system operation) x 2
- Remote control
- Power cords (make sure you use the correct cord for your country/region):

  Round 2-pin type, flat blade 2-pin type and UK 3-pin type
- J-shaped plug
- These operating instructions

Loading the batteries



Important

Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions:

- Never use new and old batteries together.
- Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
- Batteries with the same shape may have different voltages. Do not use different batteries together.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country/area.

WARNING

- Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

Using the remote control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote and the remote sensor on the unit.
- The remote has a range of about 7 m.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit's remote sensor.
- Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located close to this unit.
- Replace the batteries when you notice a fall off in the operating range of the remote.

Installing the receiver

- When installing this unit, make sure to put it on a level and stable surface.

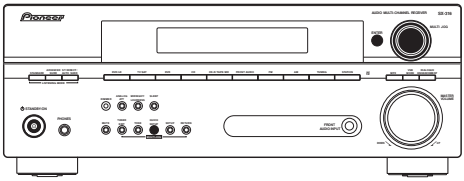
Don't install it on the following places:
– on a color TV (the screen may distort)
– near a cassette deck (or close to a device that gives off a magnetic field). This may interfere with the sound.
– in direct sunlight
– in damp or wet areas
– in extremely hot or cold areas
– in places where there is vibration or other movement
– in places that are very dusty
– in places that have hot fumes or oils (such as a kitchen)

Using the Quick Setup

You can use the Quick Setup to get your system up and running with just a few button presses. The receiver automatically makes the necessary settings after you have selected your room size and listening position.

If you want to make more specific settings, refer to *The System Setup menu* on page 23.

Use the front panel controls for the steps below.



1 Press ⏻ STANDBY/ON to switch on.

2 Press QUICK SETUP.

3 Use the MULTI JOG dial to choose your room size.
Depending on the distance of your speakers from the listening position, choose between small, medium, or large (**S**, **M** or **L**), **M** being an average-sized room.

4 Press ENTER.

5 Use the MULTI JOG dial to choose your listening position.
You can cycle between the following choices:

- **FWD** – If you are nearer to the front speakers than the surround speakers
- **MID** – If you are equal distance from the front and surround speakers
- **BACK** – If you are nearer to the surround speakers than the front speakers

6 Press ENTER to confirm your setup.
The display shows the room size and listening position that you have selected.

English

Chapter 02:
Connecting up

Making cable connections

Make sure not to bend the cables over the top of this unit. If this happens, the magnetic field produced by the transformers in this unit may cause a humming noise from the speakers.

Important

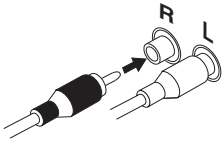
- Before making or changing any connections, switch off the power and disconnect the power cable from the AC outlet.
- Before unplugging the power cord, switch the power into standby.

Audio cables (analog)

Use audio cables (not supplied) to connect audio components.

Connect red plugs to **R** (right) jacks, white plugs to **L** (left).

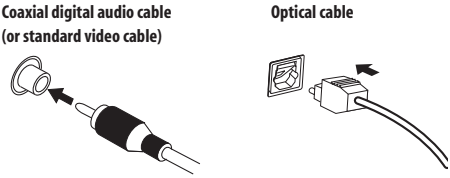
Be sure to insert completely.



Coaxial and Optical digital audio cables

Coaxial digital audio cables (standard video cables can also be used) or optical cables are used to connect digital components to this receiver.

Be sure to insert completely.

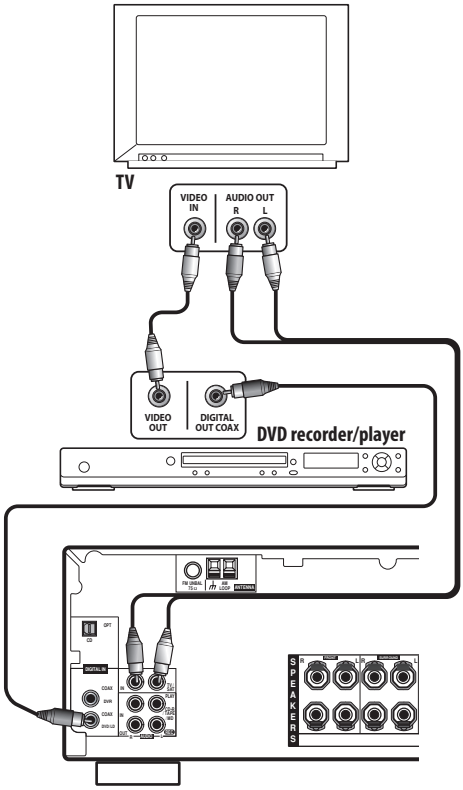


- When inserting the plug of an optical cable, be careful not to damage the shutter protecting the optical jack.
- Do not bend optical cables around sharp corners as they may be damaged. When storing, coil loosely.

Connecting to a TV and DVD recorder or player

The diagram below shows the connections for a basic home theater setup of a TV, DVD recorder (or player) and this receiver.

Audio is output from the DVD recorder's coaxial digital audio jack, while the video output goes to the TV. Also shown is a stereo analog audio connection from your TV to this receiver so you can enjoy sound from this receiver when watching TV programs.

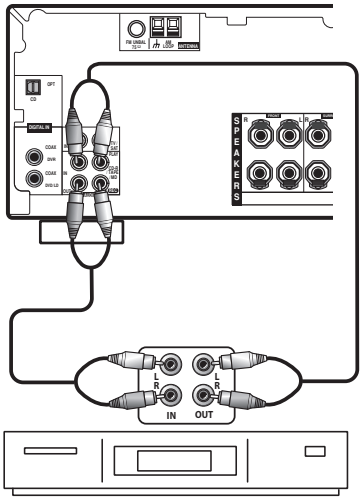


Note

- If your DVD player only has an optical digital output, you can still connect it to this receiver using the **CD OPT** optical digital jack. If you choose to do so, you will have to select the **CD** input function when you want to hear playback from your DVD player.

Connecting a tape deck or VCR

The diagram below shows a tape deck or VCR connected to the receiver using two sets of stereo analog audio cables, one set for the audio input and one set for output from the receiver for recording.

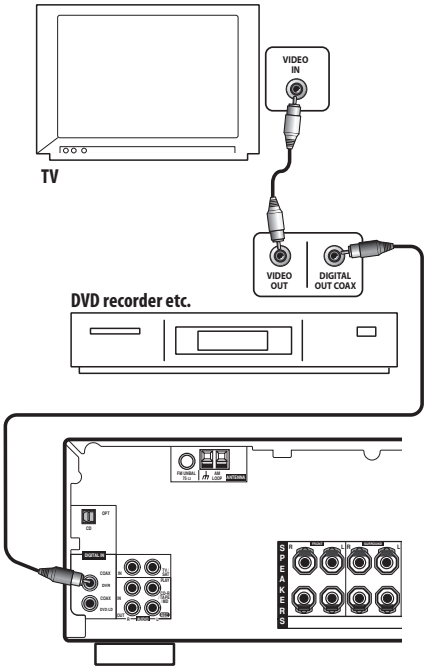


Note

- You can only record from analog audio sources (**TV/SAT**, **CD-R/TAPE/MD**, **FRONT AUDIO** or **FM/AM** inputs). Audio from the digital inputs is not recordable from the analog outputs.

Connecting other digital components

The diagram below shows the connections for a digital video component (another DVD recorder, digital satellite receiver, decoder, cable box, etc.). Connect the digital audio output of the component to the **DVR** input on this receiver. Connect the video output from the component directly to a spare video input on your TV.

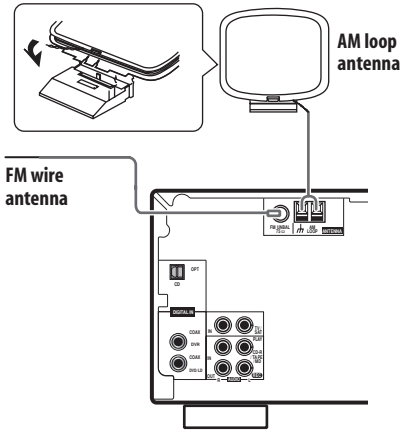


Note

- If your digital component only has an optical digital output, you can still connect it to this receiver using the **CD OPT** optical digital jack. If you choose to do so, you will have to select the **CD** input function when you want to hear playback from your digital component.

Connecting antennas

Connect the AM loop antenna and the FM wire antenna as shown below. To improve reception and sound quality, connect external antennas (see *Using external antennas* below). Always make sure that the receiver is switched off and unplugged from the wall outlet before making or changing any connections.



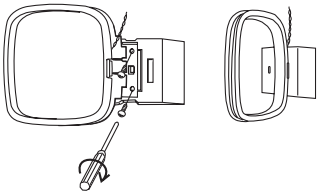
FM wire antenna

Connect the FM wire antenna and fully extend along a window frame or another suitable place that gives good reception.

AM loop antenna

Assemble the antenna and connect to the receiver. Attach (if necessary) and face in the direction that gives the best reception.

If you want to attach the loop antenna to a wall, assemble as shown below.



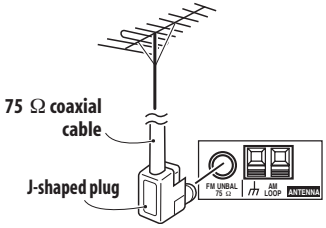
Antenna snap connectors

Twist the exposed wire strands together and insert into the hole, then snap the connector shut.

Using external antennas

To improve FM reception

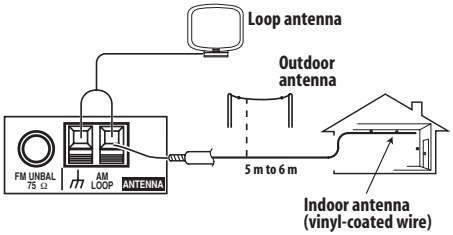
Connect an external FM antenna.



To improve AM reception

Connect a 5 m to 6 m length of vinyl-coated wire to the AM antenna terminal without disconnecting the supplied AM loop antenna.

For the best possible reception, suspend horizontally outdoors.

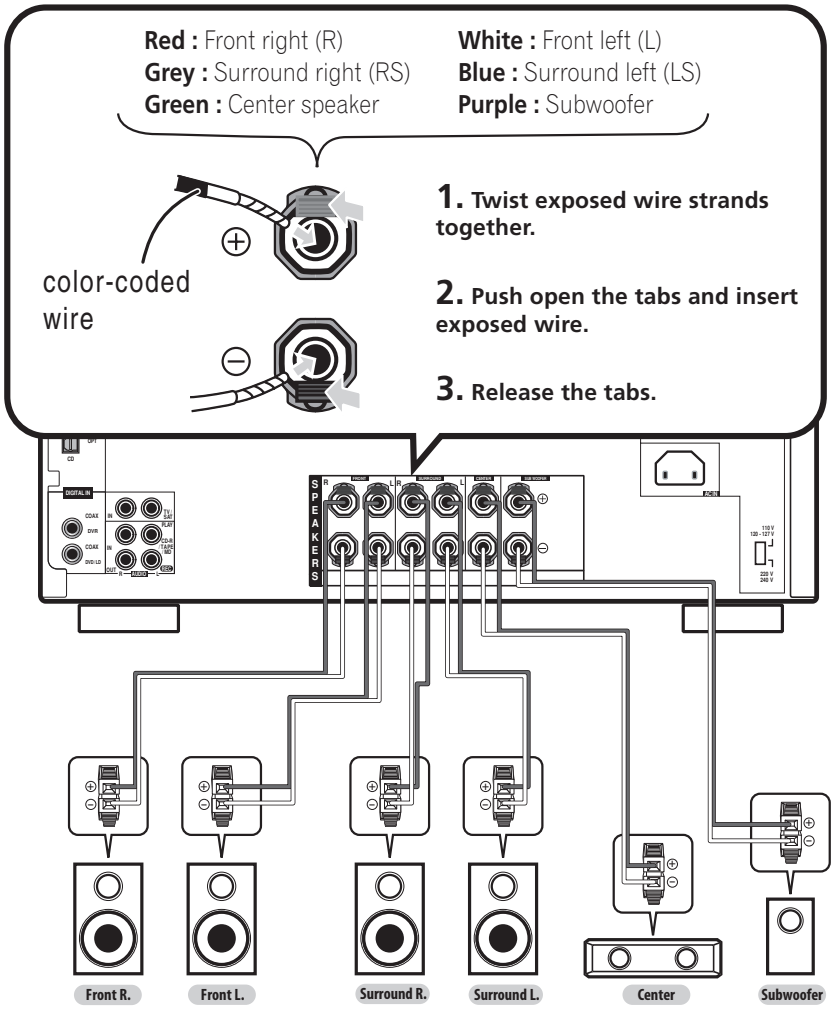


English

Connecting the speakers

The diagram below shows a complete surround sound setup of six speakers set up in a typical configuration. For the best sound, try to follow this setup in your room as closely as possible.

Make sure the positive (colored) and negative (black) terminals on the receiver match those on the speakers. You can use speakers with a nominal impedance between 8 Ω and 16 Ω.



Speaker terminals

Make sure that all the bare speaker wire is twisted together and inserted fully into the speaker terminal. If any of the bare speaker wire is touching the back panel when you switch the unit on, the power may cut off as a safety measure. Use good quality speaker wire to connect the speakers to the receiver.

Caution

- These speaker terminals carry **HAZARDOUS LIVE** voltage. To prevent the risk of electric shock when connecting or disconnecting the speaker cables, disconnect the power cord before touching any uninsulated parts.

Hints on speaker placement

Speakers are usually designed with a particular placement in mind. Some are designed to be floorstanding, while others should be placed on stands to sound their best. Some should be placed near a wall; others should be placed away from walls. We have provided a few tips on getting the best sound from your speakers (following), but you should also follow the guidelines on placement that the speaker manufacturer provided with your particular speakers to get the most out of them.

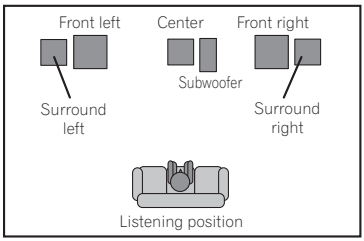
- Place the front left and right speakers at equal distances from the TV.
- When placing speakers near the TV, we recommend using magnetically shielded speakers to prevent possible interference, such as discoloration of the picture when the TV is switched on. If you do not have magnetically shielded speakers and notice discoloration of the TV picture, move the speakers farther away from the TV.
- Place the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen.
- If possible, place the surround speakers slightly above ear level.
- Try not to place the surround speakers further away from the listening position than the front and center speakers. Doing so can weaken the surround sound effect.

Caution

- If you choose to install the center speaker on top of the TV, be sure to secure it with putty, or by other suitable means, to reduce the risk of damage or injury resulting from the speaker falling from the TV in the event of external shocks such as earthquakes.
- Make sure no exposed speaker wire is touching the rear panel, this may cause the receiver to turn off automatically.
- These speaker terminals are hazardous when live. To prevent the risk of electric shock when connecting or disconnecting the speaker cables, disconnect the power cable.

Extra Power mode speaker setup

See Using the Advanced surround effects on page 20 to switch on the Extra Power mode (**EX POWER**).



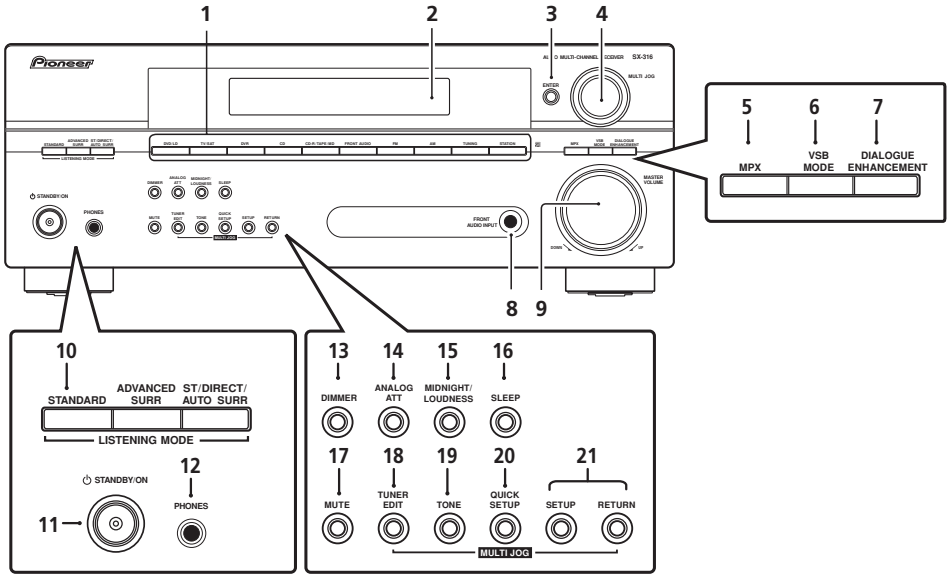
Plugging in

After making sure that everything is connected properly, connect the attached power cable to a wall outlet.

English

Chapter 3:
Controls and displays

Front panel



1 Input select buttons
Press to select an input source.

2 Character display

3 ENTER

4 MULTI JOG dial

5 MPX
Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

6 VSB MODE
Selects the Virtual Surround Back (VSB) mode.

7 DIALOGUE ENHANCEMENT
This feature localizes dialog in the center channel to make it stand out from other background sounds in a TV or movie soundtrack.

8 FRONT AUDIO INPUT

9 MASTER VOLUME
Use to set the listening volume.

10 LISTENING MODE buttons

STANDARD
Press for Standard decoding and to switch between Pro Logic II options (page 19).

ADVANCED SURR
Switches between the various surround modes(page 20).

ST/DIRECT/AUTO SURR
Switches between direct and stereo playback. Direct playback bypasses the tone controls for the most accurate reproduction of a source (page 21). Also selects the Auto Surround mode (*Auto playback* on page 19).

11 ⏻ STANDBY/ON
Switches the receiver between standby and on.

12 PHONES jack

13 DIMMER
Dims or brightens the display.

14 ANALOG ATT
Attenuates (lowers) the level of an analog input signal to prevent distortion.

15 MIDNIGHT/LOUDNESS
These features give you good sound at low volume levels when listening to movie (Midnight) or music (Loudness) sources. Press to switch between **MIDNIGHT**, **LOUDNESS**, and **OFF**.

16 SLEEP
Press to change the amount of time before the receiver switches into standby (**30 min – 60 min – 90 min – Off**).

17 MUTE
Mutes/unmutes the sound.

18 TUNER EDIT
Press to memorize and name a station for recall (page 25).

19 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

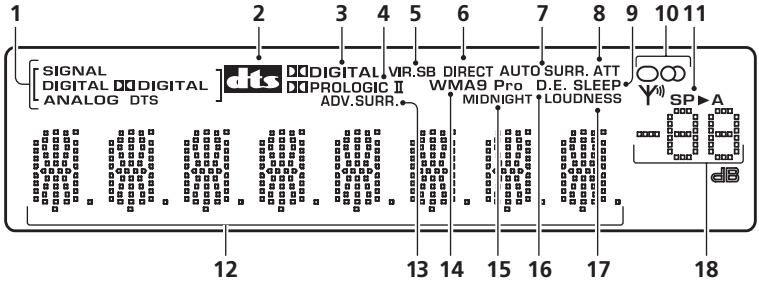
20 QUICK SETUP
See *Using the Quick Setup* on page 6.

21 System Setup menu controls

SETUP
Press to access the System Setup menu (page 23).

RETURN
Confirm and exit the current menu screen.

Display



1 SIGNAL indicators
Lights to indicate the type of input signal assigned for the current component:

DIGITAL
Lights when the **DVD/LD**, **DVR** or **CD** function is selected.

DIGITAL
Lights when a Dolby Digital[1] encoded signal is detected.

ANALOG
Lights when an analog signal is detected.

DTS
Lights when a DTS [2]encoded audio signal is detected.

2 dts
Lights to indicate decoding of a DTS multichannel signal.

3 DIGITAL
Lights to indicate decoding of a Dolby Digital multichannel signal.

4 PRO LOGIC II
Lights to indicate Pro Logic II decoding (see *Listening in surround sound* on page 19 for more on this).

5 VIR. SB
Lights during Virtual surround back processing (page 21).

6 DIRECT
Lights when source direct playback is in use. Direct playback bypasses the tone controls for the most accurate reproduction of a source.

7 AUTO SURR.
Lights when the Auto Surround feature is switched on (see *Auto playback* on page 19).

8 ATT
Lights when **ANALOG ATT** is used to attenuate (reduce) the level of the analog input signal.

9 SLEEP
Lights when the receiver is in sleep mode.

10 Tuner indicators

MONO
Lights when the mono mode is set using the **MPX** button.

STEREO
Lights when a stereo FM broadcast is being received in auto stereo mode.

TUNED
Lights when a broadcast is being received.

11 Speaker indicator
Shows if the speaker system is on or not. **SP►A** means the speakers are switched on. **SP►** means the headphones are connected.

12 Character display

13 ADV.SURR. (Advanced Surround)
Lights when one of the Advanced Surround modes has been selected.

14 WMA9 Pro
Lights to indicate decoding of a WMA9 Pro signal.

15 MIDNIGHT
Lights during Midnight listening.

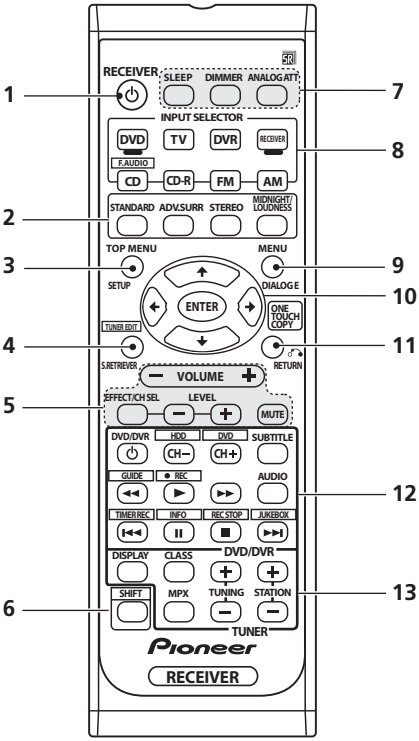
16 D.E.
Lights when Dialog Enhancement (**DIALOG E**) is switched on.

17 LOUDNESS
Lights during Loudness listening.

18 Master volume level
Shows the overall volume level. **---dB** indicates the minimum level, and **- 0 dB** indicates the maximum level.

Note
1 Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic”, and the double-D symbol are trademarks of Dolby Laboratories.
2 “DTS” and “DTS 96/24” are trademarks of Digital Theater Systems, Inc.

Remote control



1 RECEIVER⏻

Switches the receiver between standby and on.

2 Listening mode buttons

STANDARD

Press for Standard decoding and to switch between Pro Logic II options (page 19).

ADV.SURR.

Switches between the various surround modes (page 20).

STEREO

Switches between direct and stereo playback. Direct playback bypasses the tone controls for the most accurate reproduction of a source (page 21). Also selects the Auto Surround mode(*Auto playback* on page 19).

MIDNIGHT/LOUDNESS

These features give you good sound at low volume levels when listening to movie (Midnight) or music (Loudness) sources. Press to switch between **MIDNIGHT**, **LOUDNESS**, and **OFF**.

3 TOP MENU

Displays the disc 'top' menu of a DVD disc.

SETUP

Press to access the System Setup menu (page 23).

4 TUNER EDIT*

Press to memorize and name a station for recall (page 25).

Also functions as the SETUP button for DVD/DVR units.

S. RETRIEVER

Press to restore CD quality sound to compressed audio sources (page 22).

5 RECEIVER CONTROL buttons

VOLUME +/–

Use to set the listening volume.

EFFECT/CH SEL

Press repeatedly to select a channel, then use **LEVEL +/–** to adjust the level (page 24). Also adjusts the level of the Advanced Surround effects as well as Dolby Pro Logic II Music parameters (page 20). You can then use the **LEVEL +/–** buttons to make these adjustments.

LEVEL +/–

Use to adjust the effect and channel levels.

MUTE
Mutes/unmutes the sound.

6 SHIFT
Press to access commands in a rectangle (above the buttons) on the remote. These buttons are marked with an asterisk(*) in this section.

7 SLEEP
Press to change the amount of time before the receiver switches into standby (**30 min – 60 min – 90 min – Off**).

DIMMER
Dims or brightens the display.

ANALOG ATT
Attenuates (lowers) the level of an analog input signal to prevent distortion.

8 INPUT SELECTOR buttons
Press to select an input source (press **DVD/DVR** to use the DVD player/recorder controls on the remote).

RECEIVER
Use to switch to the receiver controls on the remote control. Also used when setting up the surround sound for the receiver (page 23).

9 MENU
Displays the disc menu of DVD-Video discs.

DIALOG E
This feature localizes dialog in the center channel to make it stand out from other background sounds in a TV or movie soundtrack.

10 ↑↓←→/ENTER

11 RETURN
Confirm and exit the current menu screen.

ONE TOUCH COPY*
Copies the currently playing title from DVD to HDD or vice-versa.

12 DVD/DVR control buttons
You can use these buttons to control a Pioneer DVD player or recorder connected to your system (press **DVD/DVR** to access the below controls).

Button	What it does
DVD/ DVR⏻	Turns DVD player or DVD recorder power on/off.
AUDIO	Changes the audio language or channel.
SUBTITLE	Displays/changes the subtitles on multilingual DVD-Video discs.
CH +/–	Switches channels.
►	Starts/resumes normal playback.
❚❚	Pauses/unpauses a disc.
■	Stops playback.
◄◄	Press to start fast reverse scanning.
►►	Press to start fast forward scanning.
I◄◄	Skips to the start of the current track or chapter, then previous tracks/chapters.
►►I	Skips to the next track or chapter.
HDD/ DVD*	Switch between the hard disk and DVD controls for DVD/HDD recorders.
GUIDE*	Displays the guides on a DVD recorder.
●REC*	Starts recording.
TIMER REC*	Accesses the timer recording menu.
INFO*	Displays additional EPG information.
REC STOP*	Stops recording.
JUKEBOX*	Switches to the Jukebox feature.
TUNER EDIT*	Press to access the SETUP menu .

13 TUNER controls

The **TUNING +/–** buttons can be used to find radio frequencies (page 25) and the **STATION +/–** buttons can be used to select preset radio stations (page 25).

DISPLAY
Switch the display between station preset name, frequency (see tip on page 25).

CLASS
Switches between the three banks (classes) of station presets (page 25).

MPX
Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

About the WMA9 Pro decoder

This unit has an on-board Windows Media® Audio 9 Professional (WMA9 Pro) decoder, so it is possible to playback WMA9 Pro-encoded audio using a coaxial or optical digital connection when connected to a WMA9 Pro-compatible player. However, the connected DVD player, set-top box, etc. must be able to output WMA9 Pro format audio signals through a coaxial or optical digital output.

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English

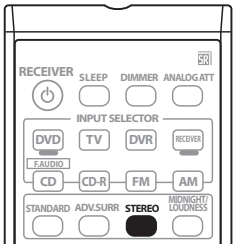
Chapter 4:
Listening to your system

Important

- Certain features explained in this section will not be possible depending on the source (for example, PCM 88.2 kHz / 96 kHz, DTS 96 kHz (24 bit) or WMA 9 Pro sources).

Auto playback

The simplest, most direct listening option is the Auto Surround feature. With this, the receiver automatically detects what kind of source you're playing and selects multichannel or stereo playback as necessary.[1]

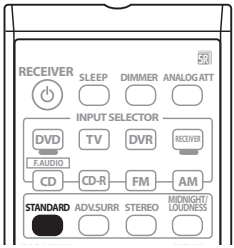


- **While listening to a source, press STEREO for auto playback of a source.** Press repeatedly until **AUTO SURR.** shows briefly in the display (it will then show the decoding or playback format). Check the digital format indicators in the display to see how the source is being processed.

Listening in surround sound

Using this receiver, you can listen to any source in surround sound. However, the options available will depend on the type of source you're listening to.

- **While listening to a source, press STANDARD.**



If the source is Dolby Digital, DTS, or Dolby Surround encoded, the proper decoding format will automatically be selected and shows in the display.

With two channel sources, press **STANDARD** repeatedly to select from:

- **DD Pro Logic II MOVIE** – Up to 5.1 channel sound, especially suited to movie sources
- **DD Pro Logic II MUSIC** – Up to 5.1 channel sound, especially suited to music sources
- **DD Pro Logic II GAME** – Up to 5.1 channel sound, especially suited to video games
- **DD PRO LOGIC** – 4.1 channel surround sound (sound from the surround speakers is mono)

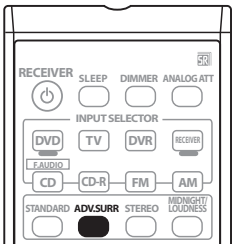
Note

1 • Stereo surround (matrix) formats are decoded accordingly using **DD Pro Logic II MOVIE** (see *Listening in surround sound* above for more on these decoding formats).

• The Auto Surround feature is canceled if you connect headphones.

Using the Advanced surround effects

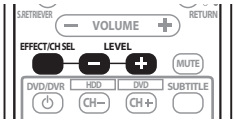
Try different settings with various soundtracks to see which you like.



- **Press ADV.SURR.(ADVANCED SURR) repeatedly to select a listening mode.**
  - **ADV. MOVIE** – Suitable for movie sources.
  - **ADV. MUSIC** – Suitable for music sources.
  - **TV SURR.** – Provides surround sound for both mono and stereo TV sources.
  - **SPORTS** – Suitable for sports programs.
  - **ADV. GAME** – Suitable for video games.
  - **EXPANDED** – Simulates multichannel surround sound for two-channel sources.[1]
  - **EX.POWER (Extra Power)** – Gives multi-channel sound to a stereo source, using all of your speakers.
  - **VIR. SURR.** – A virtual surround effect using just the subwoofer and front speakers.
  - **PHONESUR. (Phones Surround)** – Creates the effect of overall surround with headphones.

Setting the effect options

When using surround effects, there are a number of settings you can adjust.



1 Press EFFECT/CH SEL repeatedly to select the setting you want to adjust.

Depending on the current status / mode of the receiver, certain options may not appear. Check the table below for notes on this.

2 Use the LEVEL +/– buttons to set it as necessary.

See the table below for the options available for each setting. The defaults, if not stated, are listed in bold.

3 Press EFFECT/CH SEL again to adjust other settings.

Setting	What it does	Options
Center Width[a]	Spreads the center channel between the front right and left speakers, making it sound wider (higher settings) or narrower (lower settings).	0 to 7 Default: **3**
Dimension[a]	Adjusts the surround sound balance from front to back, making the sound more distant (minus settings), or more forward (positive settings).	–3 to +3 Default: **0**
Panorama[a]	Extends the front stereo image to include surround speakers for a 'wraparound' effect.	**OFF** *ON*
Effect	Sets the effect level for the currently selected Advanced Surround mode (each mode can be set separately).	10 to 90[b]

a. Only available with 2ch sources in Dolby Pro Logic II Music mode.

b. For all Advanced Surround modes except **EX. POWER** the default Effect setting is 70. The default setting for **EX. POWER** is 90.

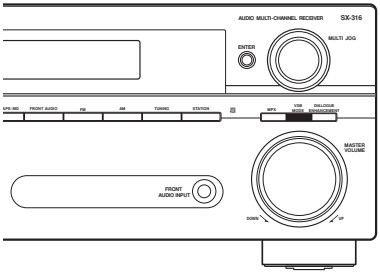
Note

1 Use with Dolby Pro Logic for a stereo surround effect (stereo field is wider than Standard modes with Dolby Digital sources).

Using the Virtual Surround Back mode (VSB)

Selecting this mode allows you to hear a virtual surround back channel through your surround speakers. For example, you can choose to listen to sources with no surround back channel information (for example, 5.1 encoded material) with emulated 6.1 encoding (**VSB ON**). Sometimes the material may sound better in the 5.1 format for which it was originally encoded. In this case you can simply switch it off (**VSB OFF**).[1]

Depending on the input signal and the Listening Mode, the Virtual Surround Back mode may not be effective.



- **Press VSB MODE (front panel) to select a virtual surround back channel option.**

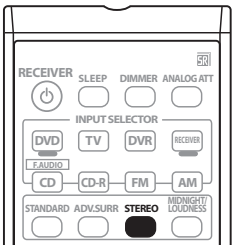
Each press cycles through the options as follows:

- **VSB ON** – Virtual Surround Back is always used (for example, on 5.1 encoded material)
- **VSB OFF** – Virtual Surround Back mode is switched off

Listening in stereo

When you select **STEREO** or **DIRECT**, you will hear the source through just the front left and right speakers.

Dolby Digital and DTS multichannel sources are downmixed to stereo.



- **While listening to a source, press STEREO for stereo playback.**

Press repeatedly to switch between:

- **STEREO** – The audio is heard with your surround settings and you can still use the Midnight, Loudness, and Tone functions.
- **DIRECT** – Bypass all effects and surround settings so that the audio remains as close to the source audio signal as possible.[2]
- **AUTO SURR.** – See *Auto playback* on page 19 for more on this.

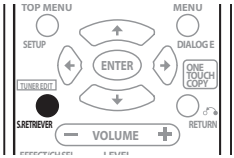
Note

1 You can't use the Virtual Surround Back mode with headphones or with the **STEREO** / **DIRECT** mode.

2 **DIRECT** switches to **STEREO** when using Midnight, Loudness, Dialog Enhancement, Sound Retriever, or the tone controls.

Using the Sound Retriever

When audio data is removed during the compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.



- **While listening to a 2-channel source, press S. RETRIEVER.**

Press repeatedly to switch between:

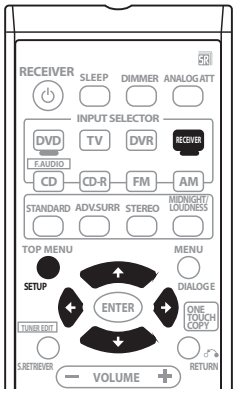
- **RTRV ON** — This option is engineered especially for portable digital audio players.
- **RTRV OFF** — Switches the Sound Retriever off.

English

Chapter 5: The System Setup menu

Making receiver settings from the System Setup menu

The following section shows you how to make detailed settings to specify how you're using the receiver and also explains how to fine-tune individual speaker system settings to your liking.



1 Press RECEIVER on the remote control, then press the SETUP button.

2 Use ⬆/⬇ (cursor up/down) to select the setting you want to adjust then press ENTER.

- **SP SETUP** allows you to specify the distance and balance of the speakers you've connected:

  CH LEVEL — Adjust overall balance of your speaker system.

  SP DISTN. — Specify the distance of your speakers from the listening position.

- **OTHER** allows you to make customized settings to reflect how you are using the receiver.

  DRC – This setting specifies the amount of dynamic range adjustment to Dolby Digital and DTS movie soundtracks (use this when listening to surround sound at low volumes).

  DUALMONO[1] – You can specify how dual mono encoded Dolby Digital soundtracks should be played (dual mono is sometimes used when two languages need to be sent to separate channels).

  LFE ATT – Some Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as necessary to prevent the ultra-low bass tones from distorting the sound from the speakers.

Channel level

Default setting:0dB (all channels)

1 Select CH LEVEL from the SP SETUP menu.

2 Use ⬅/➡ (cursor left/right) to select a setup option.

- **T. TONE M.**– Move the test tone manually from speaker to speaker and adjust individual channel levels.
- **T. TONE A.** – Adjust channel levels as the test tone moves from speaker to speaker automatically.

3 Confirm your selected setup option.

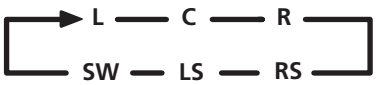
The test tones[2] will start after you press **ENTER**.

Note

1 This setting works only with dual mono encoded Dolby Digital and DTS soundtracks.
2 After the volume increases to the reference level, test tones will be output.

4 Adjust the level of each channel using the ⬅/➡ (cursor left/right) buttons.
If you selected **T. TONE M.**, use ⬆/⬇ (cursor up/down) to switch speakers.

The **T. TONE A.** setup will output test tones in the following order:



Adjust the level of each speaker as the test tone is emitted.[1]

5 When you're finished, press RETURN.

Tip

- You can change the channel levels at any time by using **EFFECT/CH SEL** and **LEVEL +/–** on the remote.

Speaker Distance

1 Select 'SP DISTN.' from the SP SETUP menu.

2 Use ⬆/⬇ (cursor up/down) to choose the speaker that you want then set the distance.
Use ⬅/➡ (cursor left/right) to adjust the distance of each speaker (in 10 cm increments).

3 When you're finished, press RETURN.

Dynamic Range Control Setup

- Default setting: **OFF**

1 Select DRC from the OTHER setup menu.

2 Use ⬅/➡ (cursor left/right) to choose the setting that you want.
- **OFF** – No dynamic range adjustment (use when listening at higher volume).
- **MID** – Mid setting.
- **MAX** – Dynamic range is reduced (loud sounds are reduced in volume while quieter sounds are increased).

3 When you're finished, press RETURN.

Dual Mono Setup

- Default setting: **CH1**

1 Select DUAL MONO from the OTHER setup menu.

2 Use ⬅/➡ (cursor left/right) to choose the setting that you want.
- **CH1** – Only channel 1 is played
- **CH2** – Only channel 2 is played
- **CH1 CH2** – Both channels are played through the front speakers

3 When you're finished, press RETURN.

LFE Attenuator Setup

- Default setting: **ATT 0 dB**

1 Select LFE ATT from the OTHER setup menu.

2 Use ⬅/➡ (cursor left/right) to choose the setting that you want.
- **LFEATT 0** – No limiting (recommended setting)
- **LFEATT 10** – 10 dB of limiting
- **LFEATT **** – No sound from LFE channel

3 When you're finished, press RETURN.

Note

1 • If you are using a Sound Pressure Level (SPL) meter, take the readings from your main listening position and adjust the level of each speaker to 75 dB SPL (C-weighting/slow reading).
• The subwoofer test tone is output at low volumes. You may need to adjust the level after testing with an actual soundtrack.

English

Chapter 6: Using the tuner

Listening to the radio

The following steps show you how to tune in to FM and AM radio broadcasts and memorize the frequency for recall later.

1 Press AM or FM to select the tuner band.

2 Tune to a station.
There are three ways to do this:

- **Automatic tuning** – Press and hold **TUNING +/–** for about a second. Searching automatically stops at the next station.
- **Manual tuning** – To change the frequency one step at a time, press **TUNING +/–**.
- **High speed tuning** – Press and hold **TUNING +/–** continuously.

If the signal is weak, press the **MPX** button to switch the receiver into mono reception mode.

Saving station presets

This receiver can memorize up to 30 stations, stored in three banks of 10 stations each.[1]

1 Tune to a station you want to memorize.

2 Press (SHIFT +) TUNER EDIT to select 'ST. MEMORY'.

3 Press CLASS to select one of the three classes then press STATION +/– to select the station preset you want.
You can also use the **MULTI JOG** dial (front panel) to select station presets.

4 Press ENTER to store the station.

Naming station presets

You can name your station presets for easy recall.

1 Choose the preset you want to name.
See *Listening to station presets* below.

2 Press (SHIFT +) TUNER EDIT to select 'ST. NAME'.
A cursor appears at the first character position.

3 Input the name you want then press ENTER.

- Use the **MULTI JOG** dial (front panel) or the **STATION +/–** buttons (remote) to select characters, and **ENTER** to confirm. If no character is input, a space is input.

Tip

- Once you have named a station preset, you can press **DISPLAY** when listening to a station to switch the display between the name and the frequency.

Listening to station presets

You will need to have some presets stored to do this. See *Saving station presets* above if you haven't done this already.

1 Press AM or FM to select the tuner.

2 Press CLASS to select the class in which the station is stored.
Press repeatedly to cycle through classes **A**, **B** and **C**.

3 Press STATION +/– to select the station preset you want.

Note
1 When saving an FM frequency, the **MPX** setting is also stored.

Changing the frequency step

If you find that you can't tune into stations successfully, the frequency step may not be suitable for your country/region. Here's how to switch the setting:

1 Switch the receiver into standby.

2 On the front panel, press ⏻ STANDBY/ ON while you press and hold the TUNER EDIT button.

The channel tuning step alternates between **10K STEP** and **9K STEP** each time you do this.

English

Chapter 7: Additional information

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Take a look at the other components and electrical appliances being used, because sometimes the problem may lie there. If the trouble isn't sorted out even after going through the checks below, ask your nearest Pioneer authorized independent service company to carry out repair work.

- If the unit does not operate normally due to external effects such as static electricity, disconnect the power plug from the outlet and insert again to return to normal operating conditions.

Problem	Remedy
The power does not turn on.	• Connect the power plug to the wall outlet. • Disconnect the power plug from the outlet, and insert again. • Make sure there are no loose strands of speaker wire touching the rear panel. This could cause the receiver to shut off automatically. • If the power shuts off automatically, take the unit to your nearest Pioneer authorized service center or your dealer for servicing.
No sound is output when a function is selected.	• Make sure the component is connected correctly (refer to *Connecting up* on page 7). • Press **MUTE** on the remote control to turn muting off. • Adjust the **MASTER VOLUME**.
Considerable noise in radio broadcasts.	• Tune in the correct frequency. • Connect the antenna and adjust the direction and position for best reception(refer to page 9). • Route any loose cables away from the antenna terminals and wires. • Fully extend the FM wire antenna, position for best reception, and secure to a wall. • Connect an outdoor FM antenna (refer to page 10). • Connect an additional internal or external AM antenna (refer to page 10). • Turn off the equipment causing the noise or move it away from the receiver. • Move antennas farther away from equipment causing the noise.
Broadcast stations cannot be selected automatically.	• Connect an outdoor antenna (refer to page 10).

Problem	Remedy
No sound from surround or center speakers.	• Connect the speakers properly. • Refer to *Channel level* on page 23 to check the speaker levels.
No sound from subwoofer.	• The Dolby Digital or DTS source you are listening to may not have an LFE channel. • Switch the *LFE Attenuator Setup* on page 24 to **LFEATT 0** or **LFEATT 10**.
Noise during playback of a cassette deck.	• Move the cassette deck further from your receiver, until the noise disappears.
No sound is output or a noise is output when software with DTS is played back.	• Set the digital volume level of the player to full, or to the neutral position.
During a playback search, noise is output from a DTS compatible CD player.	• This is not a malfunction, but be sure to turn the volume down to prevent the output of loud noise from your speakers.
Can't operate the remote control.	• Replace the batteries (refer to page 5). • Operate within 7 m, 30° of the remote sensor on the front panel (refer to page 5). • Remove the obstacle or operate from another position. • Avoid exposing the remote sensor on the front panel to direct light.
The display is dark or off.	• Press **DIMMER** on the remote control repeatedly to return to the default.

Resetting the main unit

Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.

1 Switch the receiver into standby.

2 While holding down the TONE button, press and hold the ⏻ STANDBY/ON button for about three seconds.

3 When you see RESET? appear in the display, press the ENTER button.
OK? shows in the display.

4 Press SETUP to confirm.
OK appears in the display to indicate that the receiver has been reset to the factory default setting.

Cleaning the unit

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surface is dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleansers.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surface.

Specifications

Amplifier section

Continuous Power Output (stereo)
Front . . . . . 100 W (DIN 1 kHz, THD, 1.0 %, 8 Ω)

Power Output (surround)
Front
. . . . . 100 W per channel (1 kHz, 1.0 % THD, 8 Ω)
Center . . . . . 100 W (1 kHz, 1.0 % THD, 8 Ω)
Surround . . . . . .100 W per channel (1 kHz, 1.0 % THD, 8 Ω)
Subwoofer . . . . . 100 W (100 Hz, 1.0 % THD, 8 Ω)

Maximum Power Output
Front
. . . . . .130 W per channel (1 kHz, 10 % THD, 8 Ω)
Center . . . . . .130 W (1 kHz, 10 % THD, 8 Ω)
Surround . . . . . .130 W per channel (1 kHz, 10 % THD, 8 Ω)
Subwoofer . . . . . 130 W (100 Hz, 10 % THD, 8 Ω)

FM Tuner Section

Frequency Range. . . . . .87.5 MHz to 108 MHz
Antenna Input . . . . . 75 Ω unbalanced

AM Tuner Section

Frequency Range
9 kHz step. . . . . 531 kHz to 1 602 kHz
10 kHz step. . . . . 530 kHz to 1 700 kHz
Antenna . . . . . Loop antenna

Miscellaneous

Power requirements
. . . . . AC 110 V/ 120 V to127 V/220 V / 240V, 50 Hz / 60 Hz
Power consumption . . . . . 320 W
In standby. . . . . .0.5 W (AC 220V/50 Hz)
Dimensions
. . . . . 420 mm (W) x 158 mm (H) x 348 mm (D)
Weight (without package). . . . . .8.4 kg

Furnished Parts

AM loop antenna 1
FM wire antenna. 1
AA size IEC R6 dry cell batteries 2
Remote control 1
Power cords 3
J-shaped plug 1
These operating instructions

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

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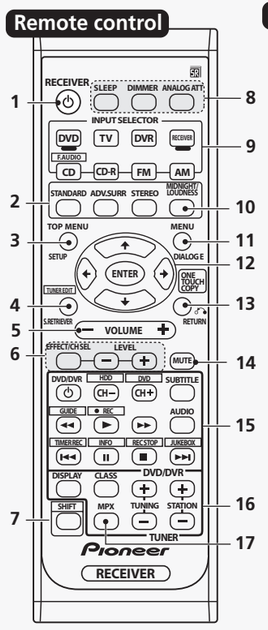
Pioneer sound.vision.soul

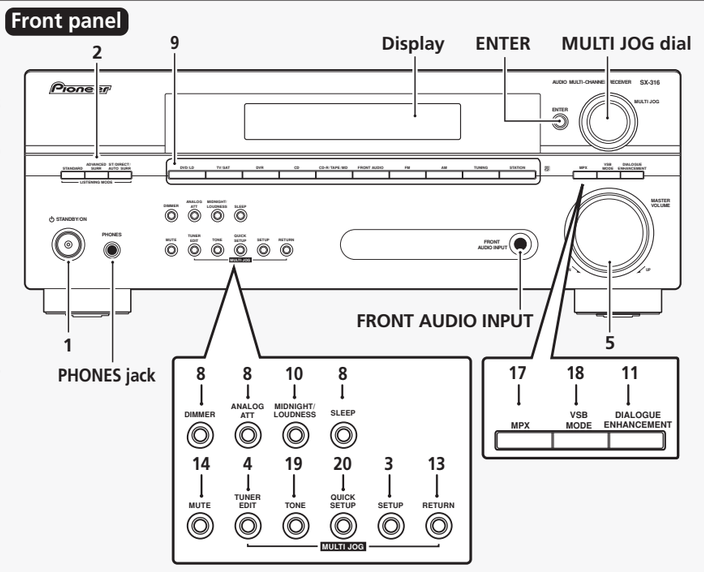
Operating Instructions for the SX-316-S Audio Multi-Channel Receiver

Controls and displays

Remote control



Front panel

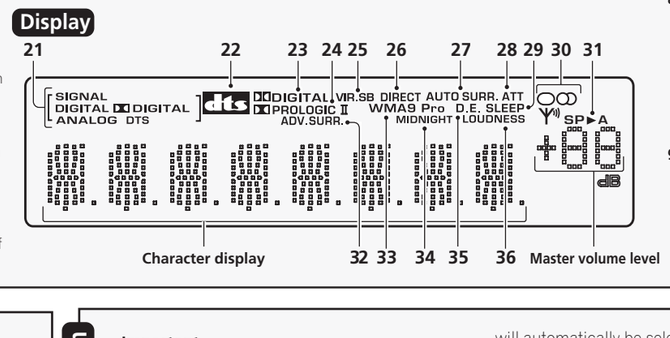


Note

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote and the remote sensor on the unit.
- The remote has a range of about 7m.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit's remote sensor.
- Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located close to this unit.
- Replace the batteries when you notice a fall off in the operating range of the remote.

Display



1 **RECEIVER⏻ (STANDBY/ON⏻)**
Switches the receiver between standby and on.

2 **Listening mode buttons**
STANDARD
Press for Standard decoding and to switch between Pro Logic II options.
ADV.SURR.
Switches between the various surround modes.
STEREO
Switches between direct and stereo playback. Direct playback bypasses the tone controls for the most accurate reproduction of a source. Also selects the Auto Surround mode.

3 **TOP MENU**
Displays the disc 'top' menu of a DVD disc.
SETUP
Press to access the System Setup menu.

4 **TUNER EDIT***
Press to memorize and name a station for recall. Also functions as the **SETUP** button for DVD/DVR units.
S. RETRIEVER
Press to restore CD quality sound to compressed audio sources.

5 **(MASTER) VOLUME +/–**
Use to set the listening volume.

6 **EFFECT/CH SEL**
Press repeatedly to select a channel, then use **LEVEL +/–** to adjust the level. Also selects the Advanced Surround effect level (use **LEVEL +/–** to adjust).
LEVEL +/–
Use to adjust the effect and channel levels.

7 **SHIFT**
Press to access commands in a rectangle (above the buttons) on the remote. These buttons are marked with an asterisk (*) in this section.

8 **SLEEP**
Press to change the amount of time before the receiver switches into standby (**30 min - 60 min - 90 min - Off**).
DIMMER
Dims or brightens the display.
ANALOG ATT
Attenuates (lowers) the level of an analog input signal to prevent distortion.

9 **INPUT SELECTOR buttons**
Press to select an input source (press **DVD/DVR** to use the DVD player/recorder controls on the remote).
RECEIVER
Use to switch to the receiver controls on the remote control. Also used when setting up the surround sound for the receiver.

10 **MIDNIGHT/LOUDNESS**
These features give you good sound at low volume levels when listening to movie (Midnight) or music (Loudness) sources. Press to switch between **MIDNIGHT**, **LOUDNESS**, and **OFF**.

11 **MENU**
Displays the disc menu of DVD-Video discs.
DIALOG E (DIALOGUE ENHANCEMENT)
This feature localizes dialog in the center channel to make it stand out from other background sounds in a TV or movie soundtrack.

12 **↑↓←→/ENTER**

13 **RETURN**
Confirm and exit the current menu screen.
ONE TOUCH COPY*
Copies the currently playing title from DVD to HDD or vice-versa.

14 **MUTE**
Mutes/unmutes the sound.

15 **DVD/DVR control buttons**
You can use these buttons to control a Pioneer DVD player or recorder connected to your system.

Button	What it does
DVD/DVR ⏻	Turns DVD player or recorder power on/off.
AUDIO	Changes the audio language or channel.
SUBTITLE	Displays/changes the subtitles on multilingual DVD-Video discs.
CH +/–	Switches channels.
▶	Starts/resumes normal playback.
❚❚	Pauses/unpauses a disc.
■	Stops playback.
◀◀	Press to start fast reverse scanning.
▶▶	Press to start fast forward scanning.
⏮	Skips to the start of the current track or chapter, then previous tracks/chapters.
⏭	Skips to the next track or chapter.
HDD/DVD*	Switch between the hard disk and DVD controls for DVD/HDD recorders.
GUIDE*	Displays the guides on a DVD recorder.
●REC*	Starts recording.
TIMER REC*	Accesses the timer recording menu.
INFO*	Displays additional EPG information.
REC STOP*	Stops recording.
JUKEBOX*	Switches to the Jukebox feature.

16 **TUNER controls**
The **TUNING +/–** buttons can be used to find radio frequencies and the **STATION +/–** buttons can be used to select preset radio stations.
DISPLAY
Switches the display between station preset name and frequency.
CLASS
Switches between the three banks (classes) of station presets.

17 **MPX**
Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

18 **VSB MODE**
Selects the Virtual Surround Back (VSB) mode.

19 **TONE**
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

20 **QUICK SETUP**

21 **SIGNAL indicators**
Lights to indicate the type of input signal assigned for the current component:
DIGITAL
Lights when a digital audio signal is detected.
DD DIGITAL
Lights when a Dolby Digital encoded signal is detected.
DTS
Lights when a DTS encoded audio signal is detected.
ANALOG
Lights when an analog signal is detected.

22 **dts**
When the **STANDARD** mode of the receiver is on, this lights to indicate decoding of a DTS multichannel signal.

23 **DD DIGITAL**
When the **STANDARD** mode of the receiver is on, this lights to indicate decoding of a Dolby Digital multichannel signal.

24 **DD PRO LOGIC II**
When the (**STANDARD**) Pro Logic II mode of the receiver is on, **DD PRO LOGIC II** lights to indicate Pro Logic II decoding.

25 **VIR.SB**
Lights during Virtual surround back processing.

26 **DIRECT**
Lights when source direct playback is in use. Direct playback bypasses the tone controls for the most accurate reproduction of a source.

27 **AUTO SURR.**
Lights when the Auto Surround feature is switched on.

28 **ATT**
Lights when **ANALOG ATT** is used to attenuate (reduce) the level of the analog input signal.

29 **SLEEP**
Lights when the receiver is in sleep mode.

30 **Tuner indicators**
⬭ / MONO
Lights when the mono mode is set using the **MPX** button.
⬭⬭ / STEREO
Lights when a stereo FM broadcast is being received in auto stereo mode.
⚲ / TUNED
Lights when a broadcast is being received.

31 **Speaker indicator**
Shows if the speaker system is on or not. **SP▶A** means the speakers are switched on. **SP▶** means the headphones are connected.

32 **ADV.SURR. (Advanced Surround)**
Lights when one of the Advanced Surround modes has been selected.

33 **WMA9 Pro**
Lights to indicate decoding of a WMA9 Pro signal.

34 **MIDNIGHT**
Lights during Midnight listening.

35 **D.E.**
Lights when Dialog Enhancement (**DIALOG E**) is switched on.

36 **LOUDNESS**
Lights during Loudness listening.

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"DTS" and "DTS 96/24" are trademarks of Digital Theater Systems, Inc.

Before you start

Using the Quick Setup

You can use the Quick Setup to get your system up and running with just a few button presses. The receiver automatically makes the necessary settings after you have selected your room size and listening position.
If you want to make more specific settings, refer to The System Setup menu.
Use the front panel controls for the steps below.

1 Press ⏻ STANDBY/ON to switch on.
2 Press QUICK SETUP.
3 Use the MULTI JOG dial to choose your room size.
Depending on the distance of your speakers from the listening position, choose between small, medium, or large (**S**, **M** or **L**), **M** being an average-sized room.
4 Press ENTER.
5 Use the MULTI JOG dial to choose your listening position.
You can cycle between the following choices:

- **FWD** — If you are nearer to the front speakers than the surround speakers
- **MID** — If you are equal distance from the front and surround speakers
- **BACK** — If you are nearer to the surround speakers than the front speakers

6 Press ENTER to confirm your setup.
The display shows the room size and listening position that you have selected.

Listening to your system

Important

- Certain features explained in this section will not be possible depending on the source (for example, PCM 88.2 kHz / 96 kHz, DTS 96kHz (24 bit) or WMA 9 Pro sources).

Auto playback

The simplest, most direct listening option is the Auto Surround feature. With this, the receiver automatically detects what kind of source you're playing and selects multichannel or stereo playback as necessary.

- **While listening to a source, press STEREO for auto playback of a source.**

Press repeatedly until **AUTO SURR.** shows briefly in the display (it will then show the decoding or playback format). Check the digital format indicators in the display to see how the source is being processed.

Note

- Stereo surround (matrix) formats are decoded accordingly using **DD Pro Logic II MOVIE**.
- The Auto Surround feature is canceled if you connect headphones or select the multichannel analog inputs.

Listening in surround sound

Using this receiver, you can listen to any source in surround sound. However, the options available will depend on the type of source you're listening to.

- **While listening to a source, press STANDARD.**

If the source is Dolby Digital, DTS, or Dolby Surround encoded, the proper decoding format will automatically be selected and shows in the display.
With two channel sources, press **STANDARD** repeatedly to select from:

- **DD Pro Logic II MOVIE** — Up to 5.1 channel sound, especially suited to movie sources
- **DD Pro Logic II MUSIC** — Up to 5.1 channel sound, especially suited to music sources
- **DD Pro Logic II GAME** — Up to 5.1 channel sound, especially suited to video games
- **DD PRO LOGIC** — 5.1 channel surround sound

Using the Advanced surround effects

Try different settings with various soundtracks to see which you like.

- **Press ADV.SURR.(ADVANCED SURROUND) repeatedly to select a listening mode.**
- **ADV. MOVIE** — Suitable for movie sources.
- **ADV. MUSIC** — Suitable for music sources.
- **TV SURR**. — Provides surround sound for both mono and stereo TV sources.
- **SPORTS** — Suitable for sports programs.
- **ADV. GAME** — Suitable for video games.
- **EXPANDED** — Simulates multichannel surround sound for two-channel sources.
- **EX.POWER (Extra Power)** — Gives multichannel sound to a stereo source, using all of your speakers.
- **VIR. SURR** — A virtual surround effect using just the subwoofer and front speakers.
- **PHONESUR. (Phones Surround)** — Creates the effect of overall surround with headphones.

Note

- Use with Dolby Pro Logic for a stereo surround effect (stereo field is wider than Standard modes with Dolby Digital sources).

Setting the effect options

When using surround effects, there are a number of settings you can adjust.

1 Press EFFECT/CH SEL repeatedly to select the setting you want to adjust.
Depending on the current status / mode of the receiver, certain options may not appear. Check the table below for notes on this.
2 Use the LEVEL+/– buttons to set it as necessary.
See the table below for the options available for each setting. The defaults, if not stated, are listed in bold.
3 Press EFFECT/CH SEL again to adjust other settings.

Setting	What it does	Options
Center Width*	Spreads the center channel between the front right and left speakers, making it sound wider (higher settings) or narrower (lower settings).	0 to 7 Default: **3**
Dimension*	Adjusts the surround sound balance from front to back, making the sound more distant (minus settings), or more forward (positive settings).	–3 to +3 Default: **0**
Panorama*	Extends the front stereo image to include surround speakers for a 'wraparound' effect.	**OFF** *ON*
Effect	Sets the effect level for the currently selected Advanced Surround mode (each mode can be set separately).	10 to 90

* Only available with 2ch sources in Dolby Pro Logic II Music mode.

Using the Virtual Surround Back mode

Selecting this mode allows you to hear a virtual surround back channel through your surround speakers. For example, you can choose to listen to sources with no surround back channel information (for example, 5.1 encoded material) with emulated 6.1 encoding (**VSB ON**). Sometimes the material may sound better in the 5.1 format for which it was originally encoded. In this case you can simply switch it off (**VSB OFF**).

- **Press VSB MODE (front panel) to select a virtual surround back channel option.**

Each press cycles through the options as follows:

- **VSB ON** — Virtual Surround Back is always used (for example, on 5.1 encoded material)
- **VSB OFF** — Virtual Surround Back mode is switched off

Note

- You can't use the Virtual Surround Back mode with headphones or with the **STEREO** / **DIRECT** mode.

Listening in stereo

When you select **STEREO** or **DIRECT**, you will hear the source through just the front left and right speakers (and subwoofer). Dolby Digital and DTS multichannel sources are downmixed to stereo.

- **While listening to a source, press STEREO for stereo playback.**

Press repeatedly to switch between:

- **STEREO** — The audio is heard with your surround settings and you can still use the Midnight, Loudness, and tone functions.
- **DIRECT** — Bypass all effects and surround settings so that the audio remains as close to the source audio signal as possible.
- **AUTO SURR.** — See *Auto playback* above.

Note

- **DIRECT** switches to **STEREO** when using Midnight, Loudness, Dialog Enhancement, or the tone controls.

Using the Sound Retriever

When audio data is removed during the compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.

- **While listening to a source, press S. RETRIEVER.**

Press repeatedly to switch between:

- **RTRV1 ON** — This option is engineered especially for portable digital audio players.
- **RTRV2 ON** — This option is engineered especially for portable digital radio devices (only applicable when using the **FRONT AUDIO INPUT**).
- **OFF** — Switches the Sound Retriever off.

The System Setup menu

Making receiver settings from the System Setup menu

The following section shows you how to make detailed settings to specify how you're using the receiver and also explains how to fine-tune individual speaker system settings to your liking.
1 Press RECEIVER on the remote control, then press the SETUP button.
2 Use ↑/↓ to select the setting you want to adjust then press ENTER.

- **SP SETUP** allows you to specify the distance and balance of the speakers you've connected:
  CH LEVEL — Adjust overall balance of your speaker system.
  SP DISTN. — Specify the distance of your speakers from the listening position.
- **OTHER** allows you to make customized settings to reflect how you are using the receiver.
  DRC — This setting specifies the amount of dynamic range adjustment to Dolby Digital and DTS movie soundtracks (use this when listening to surround sound at low volumes).
  DUAL MONO — You can specify how dual mono encoded Dolby Digital soundtracks should be played (dual mono is sometimes used when two languages need to be sent to separate channels).
  LFE ATT — Some Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as necessary to prevent the ultra-low bass tones from distorting the sound from the speakers.

Channel level

1 Select CH LEVEL from the SP SETUP menu.
2 Use ←/→ to select a setup option.

- **T. TONE M.** — Move the test tone manually from speaker to speaker and adjust individual channel levels.
- **T. TONE A.** — Adjust channel levels as the test tone moves from speaker to speaker automatically.

3 Confirm your selected setup option.
The test tones will start after you press **ENTER**. After the volume increases to the reference level, test tones will be output.
4 Adjust the level of each channel using ←/→.
If you selected **T. TONE M.**, use ↑/↓ to switch speakers.
The **T. TONE A.** setup will output test tones in the following order:

L → C → R → RS → LS → SW

Adjust the level of each speaker as the test tone is emitted.
5 When you're finished, press RETURN.
Tip

- You can change the channel levels at any time by using **EFFECT/CH SEL** and **+/–** on the remote.

Note

- If you are using a Sound Pressure Level (SPL) meter, take the readings from your main listening position and adjust the level of each speaker to 75 dB SPL (C-weighting/slow reading).
- The subwoofer test tone is output at low volumes. You may need to adjust the level after testing with an actual soundtrack.

Speaker Distance

1 Select 'SP DISTN.' from the SP SETUP menu.
2 Use ↑/↓ to choose the speaker that you want then set the distance.
Use ←/→ to adjust the distance of each speaker (in 0.5 feet increments).
3 When you're finished, press RETURN.
Tip

- For best surround sound, make sure the surround back speakers are the same distance from the listening position.

Dynamic Range Control Setup

- Default setting: **OFF**

1 Select DRC from the OTHER setup menu.
2 Use ←/→ to choose the setting that you want.

- **OFF** — No dynamic range adjustment (use when listening at higher volume).
- **MID** — Mid setting.
- **MAX** — Dynamic range is reduced (loud sounds are reduced in volume while quieter sounds are increased).

3 When you're finished, press RETURN.

Dual Mono Setup

- Default setting: **CH1**

1 Select DUAL MONO from the OTHER setup menu.
2 Use ←/→ to choose the setting that you want.

- **CH1** — Only channel 1 is played
- **CH2** — Only channel 2 is played
- **CH1 CH2** — Both channels are played through the front speakers

3 When you're finished, press RETURN.
Note

- This setting works only with dual mono encoded Dolby Digital and DTS soundtracks.

LFE Attenuator Setup

- Default setting: **ATT 0 dB**

1 Select LFE ATT from the OTHER setup menu.
2 Use ←/→ to choose the setting that you want.

- **LFEATT 0** — No limiting (recommended setting)
- **LFEATT 10** — 10 dB of limiting
- **LFEATT **** — No sound from LFE channel

3 When you're finished, press RETURN.

Using the tuner

Listening to the radio

The following steps show you how to tune in to FM and AM radio broadcasts and memorize the frequency for recall later.
1 Press AM or FM to select the tuner band.
2 Tune to a station.
There are three ways to do this:

- **Automatic tuning** — Press and hold **TUNING +/–** for about a second. Searching automatically stops at the next station.
- **Manual tuning** — To change the frequency one step at a time, press **TUNING +/–**.
- **High speed tuning** — Press and hold **TUNING +/–** continuously.

If the signal is weak, press the **MPX** button to switch the receiver into mono reception mode.

Saving station presets

This receiver can memorize up to 30 stations, stored in three banks of 10 stations each.
1 Tune to a station you want to memorize.
2 Press TUNER EDIT to select 'ST. MEMORY'.
3 Press CLASS to select one of the three classes then press STATION (+/–) to select the station preset you want.
You can also use the **MULTI JOG** dial after pressing **STATION** (front panel) to select station presets.
4 Press ENTER to store the station.
Note

- When saving an FM frequency, the **MPX** setting is also stored.

Naming station presets

You can your station presets for easy recall.
1 Choose the preset you want to name.
See *Listening to station presets* below.
2 Press TUNER EDIT to select 'ST. NAME'.
A cursor appears at the first character position.
3 Input the name you want then press ENTER.
Use the **MULTI JOG** dial (front panel) or the **STATION +/-** buttons (remote) to select characters, and **ENTER** to confirm. If no character is input, a space is input.
Tip

- Once you have named a station preset, you can press **DISPLAY** when listening to a station to switch the display between the name and the frequency.

Listening to station presets

You will need to have some presets stored to do this. See *Saving station presets* if you haven't done this already.
1 Press AM or FM to select the tuner.
2 Press CLASS to select the class in which the station is stored.
Press repeatedly to cycle through classes **A**, **B** and **C**.
3 Press STATION +/– to select the station preset you want.

Specifications

Specifications

Amplifier section

• Continuous power output

Front
·····100 W per channel* (200 Hz to 20 kHz, 0.7 %**, 8 Ω)
Center ····· 100 W*(200 Hz to 20 kHz, 0.7 %**, 8 Ω)
Surround
····· 100 W per channel*(200 Hz to 20 kHz, 0.7 %**, 8 Ω)
Subwoofer ····· 100 W*(45 Hz to 200 kHz, 0.7 %**, 8 Ω)

• RMS Power Output

Front ····· 144 W per channel (1 kHz, THD, 10 %, 8 Ω)
Center ····· 144 W (1 kHz, THD, 10 %, 8 Ω)
Surround ·····144 W per channel (1 kHz, THD, 10 %, 8 Ω)
Subwoofer ····· 144 W (1 kHz, THD, 10 %, 8 Ω)

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.
** Measured by Audio Spectrum Analyzer.

FM Tuner Section

Frequency Range ····· 87.5 MHz to 108 MHz
Antenna Input (DIN) ····· 75 Ω unbalanced

AM Tuner Section

Frequency Range ····· 530 kHz to 1 700 kHz
Antenna ····· Loop antenna

Miscellaneous

Power requirements ····· AC 120 V / 60 Hz
Power consumption ····· 320 W / 420 VA
In standby ····· 0.5 W
Dimensions
·····16 9/16 in. (W) x 6 1/4 in. (H) x 13 11/16 in.(D)
420 mm (W) x 158 mm(H) x 348 mm(D)
Weight (without package) 19.0 lb (8.6 kg)

Furnished Parts

AM loop antenna ····· 1
FM wire antenna ····· 1
AA size IEC R6 dry cell batteries (to confirm system operation) ····· 2
Remote control ····· 1
Mini-plug audio cable ····· 1
These operating instructions

Note
Specifications and the design are subject to possible modifications without notice, due to improvements.

Additional information

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Take a look at the other components and electrical appliances being used, because sometimes the problem may lie there. If the trouble isn't sorted out even after going through the checks below, ask your nearest Pioneer authorized independent service company to carry out repair work.

Note
If the unit does not operate normally due to external effects such as static electricity, disconnect the power plug from the outlet and insert again to return to normal operating conditions.

Problem	Remedy
The power does not turn on.	• Connect the power plug to the wall outlet. • Disconnect the power plug from the outlet, and insert again. • Make sure there are no loose strands of speaker wire touching the rear panel. This could cause the receiver to shut off automatically. • If the power shuts off automatically, take the unit to your nearest Pioneer authorized service center or your dealer for servicing.
No sound is output when a function is selected.	• Make sure the component is connected correctly. • Press **MUTE** on the remote control to turn muting off. • Adjust the **MASTER VOLUME**.
No image is output when a function is selected.	• Make sure the component is connected correctly. • Select the correct component (use the **INPUT SELECTOR** buttons).
Considerable noise in radio broadcasts.	• Tune in the correct frequency. • Connect the antenna and adjust the direction and position for best reception. • Route any loose cables away from the antenna terminals and wires. • Fully extend the FM wire antenna, position for best reception, and secure to a wall. • Connect an outdoor FM antenna. • Connect an additional internal or external AM antenna. • Turn off the equipment causing the noise or move it away from the receiver. • Move antennas farther away from equipment causing the noise.
Broadcast stations cannot be selected automatically.	• Connect an outdoor antenna.
No sound from surround or center speakers.	• Connect the speakers properly. • Refer to *Channel level* to check the speaker levels.
No sound from subwoofer.	• The Dolby Digital or DTS source you are listening to may not have an LFE channel. • Switch the *LFE Attenuator Setup* to **LFEATT 0** or **LFEATT 10**.
Noise during playback of a cassette deck.	• Move the cassette deck further from your receiver, until the noise disappears.
No sound is output or a noise is output when software with DTS is played back.	• Set the digital volume level of the player to full, or to the neutral position.
During a playback search, noise is output from a DTS compatible CD player.	• This is not a malfunction, but be sure to turn the volume down to prevent the output of loud noise from your speakers.
Can't operate the remote control.	• Replace the batteries. • Operate within 23 ft. (7 m), 30° of the remote sensor on the front panel. • Remove the obstacle or operate from another position. • Avoid exposing the remote sensor on the front panel to direct light.
The display is dark or off.	• Press **DIMMER** on the remote control repeatedly to return to the default.

Resetting the main unit

Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.
1 Switch the receiver into standby.
2 While holding down the TONE button, press and hold the ⏻ STANDBY/ON button for about three seconds.
3 When you see 'RESET?' appear in the display, press the ENTER button.
OK? shows in the display.
4 Press SETUP to confirm.
OK appears in the display to indicate that the receiver has been reset to the factory default settings.

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<XRE3113-A>